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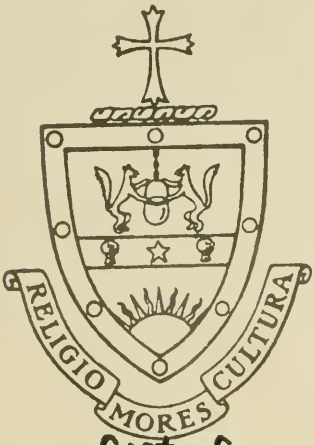

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Commonwealth of Pennsylvania

REPORT

OF THE

Department of Mines

OF PENNSYLVANIA

PART I—Anthracite

1919 - 1920

HARRISBURG, PENNA.:
J. L. L. KUHN, PRINTER TO THE COMMONWEALTH

LETTER OF TRANSMITTAL

Department of Mines,
March 28, 1921.

To His Excellency, William C. Sproul, Governor of Pennsylvania.

Sir: In compliance with the Act of Assembly of April 14, 1903, I beg to submit herewith, for transmission to the General Assembly, the reports of the Department of Mines for the years ending December 31, 1919 and 1920. Part 1 covers in detail the operations in the twenty-five Anthracite Districts, and Part II the operations in the thirty Bituminous Districts, as returned by the Inspectors.

Respectfully submitted,

SEWARD E. BUTTON
Chief of Department of Mines.

REPORT

OF THE

DEPARTMENT OF MINES

INTRODUCTION

By the Act of Assembly approved April 18, 1919, the reports of the various departments of the State Government are to be published biennially instead of annually as heretofore. The report of the Department of Mines, transmitted herewith, covers the years 1919 and 1920. It has been greatly condensed as compared with previous issues, but an effort has been made to preserve the standardized form of the various tables, although necessary changes have been made in the order of their presentation.

The total amount of coal produced in Pennsylvania in 1919 was 234,923,805 net tons; and in 1920, 256,565,038 net tons. In the anthracite region the production in 1919 was 87,838,024 net tons; and in 1920, 89,636,036 net tons. In the bituminous region the production in 1919 was 147,085,781 net tons; and in 1920, 166,929,002 net tons.

The number of employes in and about the mines was 334,611 in 1919 and 333,285 in 1920. In the anthracite region the number was 153,780 in 1919 and 149,117 in 1920. In the bituminous region the number was 180,831 in 1919 and 184,168 in 1920.

ACCIDENTS

The number of fatal accidents in 1919 was 1,037; the number of non-fatal accidents 2,747. In 1920 the number of fatal accidents was 914; the number of non-fatal accidents 2,816. In the anthracite region there were 636 fatal accidents in 1919 and 1,445 non-fatal accidents. In 1920 there were 490 fatal accidents and 1,428 non-fatal accidents. In the bituminous region in 1919 there were 401 fatal accidents and 1,302 non-fatal accidents. In 1920 there were 424 fatal accidents and 1,390 non-fatal accidents.

The production of coke in the bituminous region in 1919 was 14,283,713 tons and in 1920, 16,122,000 tons.

ANTHRACITE

Fatal Accidents 1919

Inside

The total number of fatalities inside was 560, of which 228 or 40.71 per cent were caused by falls of coal, slate and roof, as follows: 130 or 57.02 per cent at face of working places, 63 or 27.63 per cent in pillar work, 17 or 7.46 per cent on gangways, 4 or 1.75 per cent in headings, 3 or 1.32 per cent in chambers, 4 or 1.75 per cent on slopes and planes, 7 or 3.07 per cent in crosscut, tunnel, old workings, stripping, and room in which cars are stored.

Of the 228 fatalities by falls, 106 or 46.49 per cent were due to the carelessness of the victims, 12 or 5.26 per cent to the carelessness of others, 95 or 41.67 per cent were unavoidable, and 15 or 6.58 per cent responsibility not defined.

74 fatalities or 13.21 per cent were caused by cars, as follows: 51 or 68.92 per cent on gangways, 8 or 10.81 per cent on slopes and planes, 11 or 14.86 per cent at foot of shafts, slopes and planes, and 4 or 5.41 per cent in chambers.

Of the 74 fatalities by cars, 39 or 52.70 per cent were due to the carelessness of the victims, 7 or 9.46 per cent to the carelessness of others, 20 or 27.03 per cent were unavoidable, and 8 or 10.81 per cent responsibility not defined.

43 fatalities or 7.68 per cent were caused by explosions of gas, and 6 fatalities or 1.07 per cent by suffocation by gas. Of the 49 fatalities by gas, 22 or 44.90 per cent occurred in chambers, 9 or 18.37 per cent on gangways, 5 or 10.21 per cent in cross-headings, 6 or 12.24 per cent in chutes, 4 or 8.16 per cent in tunnels, 2 or 4.08 per cent in old workings, 1 or 2.04 per cent in shaft.

Of the 49 fatalities by explosions of gas and suffocation by gas, 20 or 40.82 per cent were due to the carelessness of the victims, 7 or 14.28 per cent to the carelessness of others, 9 or 18.37 per cent were unavoidable, and 13 or 26.53 per cent responsibility not defined.

56 fatalties or 10 per cent were caused by explosions of blasts, as follows: 49 or 87.50 per cent at face of working places, 4 or 7.14 per cent in pillar work, and 3 or 5.36 per cent on gangways, in heading and at battery.

Of the 56 fatalities by explosions of blasts, 37 or 66.07 per cent were due to the carelessness of the victims, 3 or 5.36 per cent to the carelessness of others, 9 or 16.07 per cent were unavoidable, and 7 or 12.50 per cent responsibility not defined.

92 fatalities or 16.43 per cent were caused by an explosion of powder in tunnel; responsibility not defined.

16 fatalities or 2.86 per cent occurred in shafts and slopes: 10 or 62.50 per cent were caused by persons falling into shafts and slopes, 3 or 18.75 per cent by cage falling into shafts, 3 or 18.75 per cent by cars falling down shafts.

Of the 16 fatalities that occurred in shafts and slopes, 2 or 12.50 per cent were due to the carelessness of the victims, 5 or 31.25 per cent to the carelessness of others, 4 or 25.00 per cent were unavoidable, and 5 or 31.25 per cent responsibility not defined.

4 fatalities or .72 per cent were caused by electricity: 2 or 50 per cent occurred on gangways, 1 or 25 per cent on slope, and 1 or 25 per cent in engine room.

Of the 4 fatalities by electricity, 1 or 25 per cent was due to the carelessness of others, 2 or 50 per cent were unavoidable, and 1 or 25 per cent responsibility not defined.

12 fatalities or 2.14 per cent were caused by timber that was dislodged or being handled: 5 or 41.67 per cent were due to the carelessness of the victims, 3 or 25.00 per cent were unavoidable, and 4 or 33.33 per cent responsibility not defined.

14 fatalities or 2.50 per cent were caused by rush of coal as follows: 8 in chutes, 4 in chambers and 2 in pillar work. 4 or 28.57 per cent were due to carelessness of the victims, 6 or 42.86 per cent were unavoidable, and 4 or 28.57 responsibility not defined.

1 fatality or .18 per cent was caused by victim being crushed at battery, due to his own carelessness.

14 fatalities or 2.50 per cent were caused by machinery, animals, flying objects, rush of water, rush of air, objects falling from cars, piece of rock, victim striking head against roof; cause unknown in case of one fatality.

Of the 14 fatalities from miscellaneous causes, 3 or 21.43 per cent were due to the carelessness of the victims, 1 or 7.14 per cent to the carelessness of others, 6 or 42.86 per cent were unavoidable, and 4 or 28.57 per cent responsibility not defined.

Of the 560 fatalities inside, 217 or 38.75 per cent were due to the carelessness of the victims, 36 or 6.43 per cent were due to the carelessness of others, 154 or 27.50 per cent were unavoidable, and 153 or 27.32 per cent responsibility not defined.

Outside

The total number of fatalities outside was 76, of which 26 or 34.21 per cent were caused by mine cars, 11 or 14.48 per cent by railroad cars, 16 or 21.05 per cent by machinery, 2 or 2.63 per cent by boiler

explosions, 2 or 2.63 per cent by electricity, 7 or 9.21 per cent by falls of persons, and 12 or 15.79 per cent were due to miscellaneous causes.

Of the 26 fatalities by mine cars, 13 or 50.00 per cent were due to the carelessness of the victims, 1 or 3.85 per cent to the carelessness of others, 7 or 26.92 per cent were unavoidable, and 5 or 19.23 per cent responsibility not defined.

Of the 11 fatalities by railroad cars, 5 or 45.45 per cent were due to the carelessness of the victims, 5 or 45.45 per cent were unavoidable, and 1 or 9.10 per cent responsibility not defined.

Of the 16 fatalities by machinery, 7 or 43.75 per cent were due to the carelessness of the victims, 1 or 6.25 per cent to the carelessness of others, 3 or 18.75 per cent were unavoidable, and 5 or 31.25 per cent responsibility not defined.

Responsibility not defined for the 2 fatalities caused by boiler explosions.

2 fatalities caused by electricity were unavoidable.

Of the 7 fatalities caused by falls of persons, 2 or 28.57 per cent were due to the carelessness of the victims, 4 or 57.14 per cent were unavoidable, and 1 or 14.29 per cent responsibility not defined.

Of the 12 fatalities due to miscellaneous causes, 1 or 8.33 per cent was due to the carelessness of the victim, 4 or 33.34 per cent to the carelessness of others, 6 or 50.00 per cent were unavoidable, and 1 or 8.33 per cent responsibility not defined.

Of the 76 fatalities outside, 28 or 36.84 per cent were due to the carelessness of the victims, 6 or 7.89 per cent to the carelessness of others, 27 or 35.53 per cent were unavoidable, and 15 or 19.74 per cent responsibility not defined.

Fatal Accidents 1920

Inside

The total number of fatalities inside was 403, of which 190 or 47.15 per cent were caused by falls of coal, slate and roof, as follows: 104 or 54.74 per cent at face of working places, 55 or 28.95 per cent in pillar work, 12 or 6.31 per cent on gangways, 4 or 2.10 per cent in headings and airways, 9 or 4.74 per cent in chambers, 1 or .53 per cent on slope, 1 or .53 per cent in crosscut, 4 or 2.10 per cent in old workings.

Of the 190 fatalities by falls, 77 or 40.52 per cent were due to the carelessness of the victims, 14 or 7.37 per cent to the carelessness of others, 98 or 51.58 per cent were unavoidable, and 1 or .53 per cent responsibility not defined.

57 fatalities or 14.15 per cent were caused by cars, as follows: 35 or 61. 40 per cent on gangways, 16 or 28.07 per cent on slopes and planes, 4 or 7.02 per cent at foot of slopes, and 2 or 3.51 per cent in chambers.

Of the 57 fatalities by cars, 39 or 68.42 per cent were due to the carelessness of the victims, 6 or 10.53 per cent to the carelessness of others, and 12 or 21.05 per cent were unavoidable.

35 fatalities or 8.68 per cent were caused by explosions of gas, and 9 fatalities or 2.23 per cent by suffocations by gas. Of the 44 fatalities by gas, 17 or 38.64 per cent occurred in chambers, 4 or 9.10 per cent on gangways, 1 or 2.27 per cent in heading, 5 or 11.36 per cent in pillar workings, 5 or 11.36 per cent in chutes, 11 or 25.00 per cent in old workings, and 1 or 2.27 per cent in airway.

Of the 44 fatalities by explosions of gas and suffocations by gas, 27 or 61.37 per cent were due to the carelessness of the victims, 5 or 11.36 per cent to the carelessness of others, 11 or 25.00 per cent were unavoidable, and 1 or 2.27 per cent responsibility not defined.

48 fatalities or 11.91 per cent were caused by explosions of blasts as follows: 38 or 79.17 per cent at face of working places, 1 or 2.08 per cent in pillar work, 6 or 12.50 per cent on gangways, 3 or 6.25 per cent in heading, airway and chute.

Of the 48 fatalities by explosions of blasts, 37 or 77.08 per cent were due to the carelessness of the victims, 5 or 10.42 per cent to the carelessness of others, 3 or 6.25 per cent were unavoidable, and 3 or 6.25 per cent responsibility not defined.

3 fatalities or .75 per cent were caused by explosions of powder and dynamite, as follows: 2 or 66.67 per cent in working places, and 1 or 33.33 per cent in shaft.

Of the 3 fatalities by explosions of powder and dynamite, 1 or 33.33 per cent was due to the carelessness of the victim, and 2 or 66.67 per cent were unavoidable.

22 fatalities or 5.46 per cent occurred in shafts and slopes: 18 fatalities or 81.82 per cent were caused by persons falling into shafts and slopes, 3 or 13.64 per cent by persons falling off cage, and 1 or 4.54 per cent by person being thrown against cage.

Of the 22 fatalities that occurred in shafts and slopes, 9 or 40.91 per cent were due to the carelessness of the victims, 8 or 36 per cent to the carelessness of others, 5 or 22.73 per cent were unavoidable.

5 fatalities or 1.24 per cent were caused by electricity: 4 or 80 per cent occurred on gangways, and 1 or 20 per cent on plane.

Of the 5 fatalities by electricity, 1 or 20 per cent was due to the carelessness of the victim, 1 or 20 per cent to the carelessness of others, 2 or 40 per cent were unavoidable, and 1 or 20 per cent responsibility not defined.

10 fatalities or 2.48 per cent were caused by timber that was dislodged or being handled: 2 or 20 per cent were due to the carelessness of the victims, 7 or 70 per cent were unavoidable and 1 or 10 per cent responsibility not defined.

10 fatalities or 2.48 per cent were caused by rush of coal, as follows: 5 in chutes, 1 on manway, 3 in pillar work and 1 at battery. 4 or 40 per cent were due to the carelessness of the victims, 1 or 10 per cent to the carelessness of others, and 5 or 50 per cent were unavoidable.

4 fatalities or .99 per cent were caused by animals: 2 or 50 per cent were due to the carelessness of the victims, and 2 or 50 per cent were unavoidable.

10 fatalities or 2.48 per cent were due to miscellaneous causes: by machinery, rush of rock at face of gangway, rope on gangway, rush of air on gangway, objects falling from cars, fall of person, piece of coal in chute, rail on gangway, cause unknown in case of one fatality.

Of the 10 fatalities from miscellaneous causes, 5 or 50 per cent were due to the carelessness of the victims, 3 or 30 per cent were unavoidable, and 2 or 20 per cent responsibility not defined.

Of the 403 fatalities inside, 204 or 50.62 per cent were due to the carelessness of the victims, 40 or 9.93 per cent were due to the carelessness of others, 150 or 37.22 per cent were unavoidable, and 9 or 2.23 per cent responsibility not defined.

Outside

The total number of fatalities outside was 87, of which 27 or 31.03 per cent were caused by mine cars, 6 or 6.90 per cent by railroad cars, 21 or 24.14 per cent by machinery, 3 or 3.45 per cent by electricity, 2 or 2.30 per cent by explosions of blasts in strippings, 8 or 9.19 per cent by rush of culm, 7 or 8.05 per cent by falling objects, 2 or 2.30 per cent by falls of persons, 2 or 2.30 per cent by victims being suffocated in coal pocket, 4 or 4.60 per cent by victims being scalded by hot water and steam from hot ashes, and 5 or 5.74 per cent were due to miscellaneous causes.

Of the 27 fatalities by mine cars, 15 or 55.55 per cent were due to the carelessness of the victims, 3 or 11.11 per cent to the carelessness of others, 7 or 25.93 per cent were unavoidable, and 2 or 7.41 per cent responsibility not defined.

Of the 6 fatalities by railroad cars, 2 or 33.33 per cent were due to the carelessness of the victims, 3 or 50.00 per cent to the carelessness of others and 1 or 16.67 per cent was unavoidable.

Of the 21 fatalities by machinery, 16 or 76.19 per cent were due to the carelessness of the victims, 2 or 9.52 per cent to the carelessness of others, and 3 or 14.29 per cent were unavoidable.

The 3 fatalities that were caused by electricity were due to the carelessness of the victims.

The 2 fatalities that were caused by explosions of blasts in strippings were due to the carelessness of the victims.

Of the 8 fatalities caused by rush of culm, 4 or 50 per cent were due to the carelessness of the victims, and 4 or 50 per cent were unavoidable.

Of the 7 fatalities caused by falling objects, 5 or 71.43 per cent were due to the carelessness of the victims, 1 or 14.28 per cent to the carelessness of others, and 1 or 14.29 per cent was unavoidable.

Of the 2 fatalities caused by falls of persons, 1 or 50 per cent was due to the carelessness of the victim, and 1 or 50 per cent was unavoidable.

Of the 2 fatalities that were caused by victims being suffocated in coal pocket, 1 or 50 per cent was due to the carelessness of the victim, and 1 or 50 per cent was unavoidable.

Of the 4 fatalities that were caused by victims being scalded by hot water and by steam from hot ashes, 2 or 50 per cent were due to the carelessness of the victims, 1 or 25 per cent to the carelessness of others, and 1 or 25 per cent was unavoidable.

Of the 5 fatalities due to miscellaneous causes, 4 or 80 per cent were due to the carelessness of the victims, and 1 or 20 per cent was unavoidable.

Of the 87 fatalities outside, 55 or 63.22 per cent were due to the carelessness of the victims, 10 or 11.49 per cent to the carelessness of others, 20 or 22.99 per cent were unavoidable, and 2 or 2.30 per cent responsiblity not defined.

Table 1.—Tons of coal mined, days worked, number of persons employed, number killed and injured, quantity of explosives used, by districts, 1919

Districts	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (net tons*)	Days collieries were operated (breakers)	Employes	Fatalities	Non-fatal accidents	Explosives used (pounds)			Collieries in operation (breakers)**
									Black powder	Dynamite	Permissible explosives	
1,	2,470,181	262,949	68,318	2,801,448	224	4,981	23	48	1,379,438	600,333	80,920	14
2,	3,155,673	310,444	53,172	3,519,289	254	6,091	22	34	1,416,575	648,538	251,137	15
3,	2,622,053	425,941	67,180	3,115,174	215	5,407	17	66	2,038,625	152,720	681,359	7
4,	1,752,043	212,271	141,758	2,106,072	235	4,837	14	41	1,652,303	173,416	209,596	9
5,	2,655,376	214,955	73,685	2,944,016	246	5,950	22	103	2,419,920	363,785	132,172	9
6,	3,768,465	276,421	77,977	4,122,863	252	6,994	21	67	3,214,425	292,885	190,803	12
7,	2,566,969	234,306	55,429	2,856,704	265	5,717	18	39	1,786,425	103,110	430,244	8
8,	4,156,993	296,740	48,840	4,502,573	279	9,209	23	35	3,640,500	234,705	328,023	8
9,	2,358,077	450,639	75,684	2,884,400	232	4,994	14	37	1,361,725	1,022,246	168,675	10
10,	2,852,235	394,559	62,029	3,308,823	247	5,730	22	38	1,822,775	592,612	322,624	11
11,	2,974,453	300,422	281,797	3,646,672	255	6,085	116	95	1,602,600	246,813	554,716	8
12,	3,625,523	309,868	147,302	4,082,693	271	6,514	21	76	2,044,820	92,388	264,373	8
13,	3,993,431	390,568	53,639	4,437,638	261	6,570	29	44	771,800	250,499	1,508,642	10
14,	4,051,742	400,982	65,080	4,517,804	268	7,463	25	32	950,090	338,352	845,199	9
15,	4,325,720	525,861	158,362	5,009,943	256	6,832	18	40	6,225	1,789,927	5,300	16
16,	2,660,558	348,282	389,946	3,398,786	257	5,715	18	41	84,925	1,151,128	43,630	11
17,	3,881,128	354,274	23,520	4,258,922	271	6,324	28	75	3,708	1,351,204	398,939	5
18,	3,334,046	421,525	48,944	3,804,515	252	6,282	18	52	184,400	971,555	559,630	17
19,	2,186,248	434,623	26,182	2,647,053	251	5,069	17	99	75	510,439	554,096	13
20,	2,765,301	518,481	44,001	3,327,783	279	6,050	27	42	23,975	928,827	278,272	7
21,	3,593,440	459,600	65,790	4,118,830	248	7,100	29	88	74,675	1,285,027	100,461	11
22,	3,531,260	703,010	48,629	4,282,899	262	7,829	25	41	2,101	1,774,468	185,756	13
23,	2,503,704	430,211	47,300	2,981,215	254	5,570	21	31	160,174	655,212	721,943	10
24,	2,607,833	388,252	94,800	3,090,885	266	5,218	23	77	393,151	928,121	110,470	10
25,	1,566,996	450,754	53,554	2,071,024	216	5,249	25	104	15,300	650,912	241,430	7
Totals,	75,950,448	9,605,658	2,272,918	87,828,024	252	153,780	636	1,445	27,050,730	17,118,222	9,168,410	258

*The net ton is used in preliminary part of the report and the gross ton in district reports.
**59 washeries in operation in region.

Table 1.—Tons of coal mined, days worked, number of persons employed, number killed and injured, quantity of explosives used, by districts, 1920

Districts	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (net tons*)	Days collieries were operated (breakers)	Employes	Fatalities	Non-fatal accidents	Explosives used (pounds)			Collieries in operation (breakers) **
									Black powder	Dynamite	Permissible explosives	
1,	2,768,752	244,054	83,010	3,095,816	253	4,889	16	44	1,197,175	644,838	220,120	10
2,	3,378,604	318,712	48,077	3,745,393	274	5,864	17	52	1,371,600	602,720	299,795	12
3,	2,775,557	408,282	70,912	3,254,751	242	5,677	29	46	1,649,225	657,141	307,666	7
4,	1,755,299	251,086	129,817	2,136,202	260	3,957	8	44	1,277,854	181,418	162,422	8
5,	2,324,618	226,141	85,430	2,636,189	281	4,855	24	50	1,887,865	434,049	30,223	8
6,	3,740,371	206,117	91,224	4,037,712	264	6,535	16	60	2,931,762	289,829	369,857	12
7,	2,584,549	233,665	60,857	2,879,071	263	5,557	13	39	1,443,900	86,145	384,072	8
8,	3,251,095	314,744	52,168	3,618,007	231	8,743	31	36	2,612,350	78,361	436,906	8
9,	2,460,250	444,517	104,859	3,009,626	255	5,121	16	57	1,056,250	1,084,205	7,510	11
10,	3,090,036	403,845	65,704	3,559,585	272	5,665	15	36	1,491,606	797,364	426,819	11
11,	2,632,803	406,151	312,038	3,350,992	270	5,764	23	70	1,004,682	303,670	598,778	8
12,	3,829,028	391,395	158,948	4,379,371	281	6,492	18	41	2,125,750	169,635	242,434	8
13,	4,221,242	437,211	60,856	4,719,309	276	6,754	20	34	612,750	392,612	1,417,423	10
14,	4,280,017	409,851	79,387	4,769,255	279	7,429	20	37	815,600	395,223	924,257	9
15,	3,769,720	524,979	165,753	4,460,452	255	6,430	19	44	6,950	1,622,728	3,401	16
16,	2,860,986	346,546	378,845	3,586,377	267	5,771	16	27	84,334	1,108,978	57,100	11
17,	3,793,213	363,229	119,598	4,276,040	276	6,050	18	86	97,850	1,403,428	432,605	5
18,	3,762,977	444,942	70,553	4,278,472	270	6,727	25	66	162,900	1,006,759	563,140	17
19,	2,257,198	457,380	31,761	2,746,339	267	4,446	17	68	25	406,493	425,586	12
20,	2,899,886	530,747	49,217	3,479,850	273	5,888	23	65	8,500	862,556	220,701	7
21,	3,874,453	496,768	72,133	4,443,354	271	6,910	19	110	109,725	1,419,531	110,107	11
22,	3,933,957	780,856	62,587	4,777,400	273	7,621	24	121	4,325	1,747,742	209,730	14
23,	2,434,976	428,438	63,743	2,927,157	268	5,439	18	51	80,610	616,710	881,150	9
24,	2,308,773	375,357	127,255	2,811,385	244	5,328	21	77	153,725	1,022,159	151,333	10
25,	2,142,231	459,709	55,991	2,657,931	276	5,205	14	67	8,025	839,917	249,875	6
Totals,	77,130,591	9,904,722	2,600,723	89,636,036	265	149,117	490	1,428	22,195,338	18,171,211	9,232,010	254

*The net ton is used in preliminary part of report, and the gross ton in district reports
**60 washeries in operation in region.

TABLE 2—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use, by districts, 1919

Districts	Power plant										Pumps				Haulage					Air compressors	
	Boilers				Engines								Pumps delivering water to surface			Locomotives					
	Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total capacity—gallons per minute	Number	Gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity—cubic feet per minute
1,	7	170	79	12,635	196	17,708	------	------	38	4,737	132	61,786	39	20,220	342	------	16	------	75	6	3,040
2,	1	30	81	16,163	199	21,367	------	------	42	12,210	144	116,065	54	29,860	419	------	25	------	98	19	7,464
3,	13	2,925	54	12,650	202	24,425	------	------	8	2,160	111	76,137	30	23,450	356	------	7	4	78	9	4,049
4,	12	180	52	10,115	126	11,874	------	------	15	3,907	79	34,194	24	16,075	484	------	1	------	49	7	6,723
5,	------	------	46	15,446	95	11,120	------	------	11	12,975	120	57,520	20	25,750	210	------	8	------	114	16	2,140
6,	------	------	85	20,080	164	29,206	------	------	30	10,531	150	58,553	27	15,012	341	------	22	7	126	14	5,400
7,	------	------	90	13,240	127	11,434	------	------	7	2,000	119	67,620	29	39,900	292	------	9	------	97	5	5,105
8,	------	------	137	23,222	267	23,938	------	------	24	6,755	191	72,615	28	26,400	509	------	27	------	184	14	7,940
9,	20	6,906	66	16,502	256	24,452	------	------	18	2,755	178	84,432	52	34,210	583	------	15	6	52	8	9,931
10,	8	2,200	57	13,069	233	27,723	------	------	51	3,657	166	73,484	31	23,612	632	------	22	2	65	23	24,791
11,	------	------	92	22,353	354	47,551	2	12	16	4,580	120	54,648	26	15,064	685	------	22	10	44	18	16,714
12,	9	2,250	69	17,365	431	44,955	1	22	15	11,037	126	81,205	18	15,820	683	------	15	8	56	15	24,480
13,	10	1,695	70	13,946	212	32,599	------	------	5	1,030	123	54,047	35	26,957	475	------	14	4	109	12	16,984
14,	------	------	75	18,922	130	21,049	------	------	23	4,895	79	31,049	29	15,165	404	1	18	10	95	34	25,619
15,	------	------	151	38,670	220	25,448	------	------	32	2,626	106	80,000	55	46,050	670	1	78	9	29	23	14,038
16,	------	------	134	21,810	160	119,245	------	------	8	952	104	105,447	61	55,966	502	------	58	7	19	15	4,351
17,	------	------	79	18,298	47	19,995	------	------	------	------	19	42,000	10	19,700	125	------	42	------	84	14	15,491
18,	2	80	136	23,200	226	37,414	2	9	16	2,350	124	109,083	37	22,148	490	2	47	8	43	26	19,695
19,	------	------	128	25,510	278	35,480	------	------	28	3,939	147	100,811	34	25,337	410	------	23	2	30	19	11,488
20,	------	------	157	21,825	349	51,036	1	50	14	2,626	177	134,037	36	23,328	563	------	21	15	23	20	11,727
21,	------	------	140	21,285	289	29,939	------	------	30	3,124	109	83,904	23	21,851	373	------	60	16	45	22	14,635
22,	------	------	182	29,875	331	52,049	3	150	22	4,237	152	143,055	40	41,313	589	4	54	2	47	27	25,824
23,	------	------	119	18,148	262	20,190	------	------	39	3,770	156	72,396	39	32,983	493	2	18	1	30	11	13,200
24,	------	------	126	16,710	311	31,708	------	------	17	3,134	149	81,241	39	12,468	510	2	17	------	23	23	17,120
25,	5	675	166	22,115	300	43,113	------	------	21	5,980	141	78,467	17	19,926	490	------	26	4	33	24	29,486
Totals,	87	17,111	2,571	483,154	5,765	815,018	9	243	530	115,967	3,222	1,953,796	833	648,504	11,530	12	666	115	1,651	424	337,435

TABLE 2—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use, by districts, 1920

Districts	Power plant										Pumps				Haulage					Air compressors	
	Boilers				Engines								Pumps delivering water to surface			Locomotives					
	Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total capacity—gallons per minute	Number	Gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity—cubic feet per minute
1,	6	120	12	15,378	192	18,319	------	------	47	5,140	136	58,516	41	21,200	320	------	22	------	73	11	5,600
2,	15	150	72	14,780	179	22,016	------	------	35	8,275	139	111,245	50	29,910	389	------	27	------	94	28	10,760
3,	------	------	70	14,400	171	21,500	------	------	13	3,318	100	70,706	27	21,170	400	------	7	4	83	19	12,195
4,	14	235	64	11,095	112	10,767	------	------	17	2,999	82	39,082	21	15,725	395	------	1	------	44	9	5,145
5,	------	------	48	16,697	85	9,717	------	------	12	9,700	89	62,855	27	33,350	197	------	6	------	100	19	3,310
6,	6	810	81	19,480	159	31,727	------	------	26	8,776	147	59,245	31	18,960	368	------	17	------	135	9	2,586
7,	3	375	76	11,520	107	13,634	------	------	6	1,800	119	84,850	29	43,910	266	------	9	------	108	4	4,220
8,	------	------	137	24,350	254	24,398	------	------	24	6,095	191	78,868	29	27,050	477	------	29	2	190	17	13,132
9,	------	------	84	23,078	241	24,233	------	------	24	3,970	180	92,212	48	56,149	554	------	11	6	53	8	8,931
10,	------	------	53	13,819	234	27,649	------	------	9	1,503	162	75,778	32	26,312	606	------	21	------	61	32	29,211
11,	------	------	91	22,220	343	47,130	1	6	13	4,080	124	54,440	29	13,809	646	------	21	10	47	24	24,491
12,	------	------	77	19,145	426	45,517	------	------	16	2,737	114	80,270	22	14,907	672	------	17	8	62	16	25,955
13,	10	1,620	70	13,911	203	34,169	------	------	4	725	121	59,285	35	23,795	474	1	15	3	113	10	15,701
14,	------	------	75	20,134	120	20,973	------	------	8	7,425	138	46,558	33	16,882	393	1	37	8	105	30	22,639
15,	1	80	128	29,445	205	24,177	------	------	26	2,586	136	94,750	59	54,400	568	1	79	6	38	24	14,563
16,	------	------	133	21,205	154	15,300	------	------	9	1,027	118	92,447	54	56,766	506	------	59	8	25	14	5,211
17,	------	------	81	17,598	45	18,895	------	------	------	------	19	42,000	8	12,700	133	------	42	------	84	14	14,991
18,	------	------	143	23,485	222	39,613	4	18	15	2,375	131	118,054	43	24,824	470	3	49	8	50	32	23,418
19,	3	260	107	22,120	267	32,639	1	7	19	4,089	143	98,078	31	25,853	388	1	21	3	30	18	13,963
20,	------	------	157	21,825	344	51,643	1	50	12	2,172	178	133,902	34	23,482	540	------	21	17	26	23	13,217
21,	------	------	132	20,300	307	32,629	------	------	18	3,412	108	86,398	20	18,165	358	------	50	11	46	27	14,879
22,	------	------	168	29,595	314	52,810	2	100	21	3,940	142	136,837	42	38,354	554	2	46	4	50	33	30,327
23,	1	250	112	16,923	259	21,631	1	30	17	1,900	132	83,361	44	25,101	457	------	18	1	34	13	13,775
24,	------	------	126	16,610	312	31,434	------	------	16	2,914	141	85,752	46	13,495	458	1	15	------	25	19	21,636
25,	------	------	167	21,660	300	42,846	------	------	15	7,865	145	77,317	15	13,917	472	------	25	4	33	25	27,677
Totals,	59	3,905	2,579	480,773	5,555	715,366	10	211	417	98,573	3,235	2,022,806	850	650,186	11,062	10	665	103	1,700	478	377,533

Table 3.—Production, employes, days worked, 1919.

Operators	Production (net tons)	Employes inside	Employes outside	Total employes	Average days worked
Alden Coal Co.,	424,490	540	217	757	240
Alliance Coal Mining Co.,	200,702	123	287	410	244
Archbald Coal Co.,	105,802	147	98	245	236
Acher and Jermyn,	3,211	--------	10	10	209*
Bald Mountain Coal Co.,	42,750	92	18	110	185
Barton Coal Co.,	26,545	--------	34	34	148*
Beaver Valley Coal Co.,	40,363	59	65	124	241
Bergen Coal Co.,	15,265	21	21	42	250
Black Heath Coal Co.,	9,887	10	12	22	288
Blanchard, C. N.,	3,224	--------	29	29	57*
Boland Coal Co., John J.,	9,687	10	4	14	287
Bright Coal Co.,	14,614	22	13	35	214
Buck Ridge Coal Mining Co.,	194,279	300	100	400	278
Buck Run Coal Co.,	241,217	342	137	479	272
Butcher Creek Coal Co.,	8,187	12	7	19	260
Cambridge Coal Co.,	22,043	20	32	52	131
Carbon Creek Coal Co.,	39,630	24	65	89	180
Carbondale Coal Mining Co.,	21,082	12	30	42	303
Carney and Brown Coal Co.,	32,670	44	26	70	242
Central Coal Co.,	73,525	130	32	162	273
Colonial Colliery Co.,	305,876	336	220	556	268
Conlon, John,	49,621	100	14	114	286
Connell Anthracite Mining Co.,	306,934	356	141	497	268
Coxe Brothers and Co., Inc.,	2,018,158	1,538	731	2,269	275
Cranberry Creek Coal Co.,	838,896	778	474	1,252	275
Cullen Fuel Co.,	7,889	--------	47	47	62*
Darkwater Coal Co.,	208,936	241	177	418	264
Delaware, Lackawanna & Western R. R. Co.,	10,979,446	14,476	3,443	17,919	249
Dennington Coal Co.,	8,497	--------	22	22	22*
Dodson and Co., Chas. M.,	316,096	277	366	643	276
East Alden Mining Co.,	35,213	56	18	74	300
East Bear Ridge Coal Co.,	247,719	329	141	470	270
East Boston Coal Co.,	179,068	273	100	373	247
East Lehigh Coal Co.,	78,226	110	60	170	220
East Point Coal Co.,	37,275	85	46	131	225
Enterprise Coal Co.,	202,660	327	175	502	272
Evans Colliery Co.,	45,961	93	42	135	203
Excelsior Coal Co.,	214,088	187	123	310	264
Falls Mining Co.,	4,452	34	11	45	306
Gibbons Coal Co., John,	23,554	83	24	107	283
Girard Mammoth Coal Co.,	123,668	114	181	295	253
Gorman and Campion Coal Co.,	44,037	50	43	93	276
Greenough Red Ash Coal Co.,	228,311	296	181	477	271
Green Ridge Coal Co.,	73,880	108	55	163	237
Grove Hill Coal Co.,	7,022	27	14	41	105
Haddock Mining Co.,	199,189	260	114	374	242
Harleigh-Brookwood Coal Co.,	673,068	556	449	1,005	269
Harwood Coal Co.,	186,780	221	194	415	270
Healey Coal Co.,	53,594	105	53	158	181
Hillside Coal and Iron Co.,	1,572,384	2,339	807	3,146	287
Hudson Coal Co.,	10,203,296	12,514	3,659	16,173	288
Humbert Coal Co.,	26,068	16	40	56	153
Jermyn and Co.,	246,298	580	156	736	153
Kemmerer and Co., M. S.,	11,601	58	49	107	49
Kirby and Sons, J. W.,	3,007	12	12	24	120
Kingston Coal Co.,	1,070,770	1,534	588	2,122	282
Laurel Coal Mining Co.,	17,716	39	26	65	300
Lee Coal Co., George F.,	102,999	204	51	255	274
Legitts Creek Anthracite Co.,	63,348	247	195	442	62
Lehigh and Wilkes-Barre Coal Co.,	5,131,586	5,812	2,365	8,177	271
Lehigh Coal and Navigation Co.,	4,762,806	4,567	2,554	7,121	271
Lehigh Valley Coal Co.,	7,875,474	9,217	3,744	12,961	235
Locust Dale Coal Co.,	120,120	--------	47	47	124*
Locust Mountain Coal Co.,	599,007	393	454	847	275
Lytle Coal Co.,	421,392	434	256	690	283
Markle Co., G. B.,	2,000,535	1,307	910	2,217	299
Maryd Coal Co.,	317,545	276	143	419	239
McTurk Coal Co., W. R.,	131,810	167	154	321	216
Mid City Coal Co.,	94,980	186	57	243	284
Midvalley Coal Co.,	306,803	266	182	448	272
Mill Creek Coal Co.,	338,220	374	236	610	262
Moffat, W. Y., Contractor,	28,439	78	7	85	187
Mount Jessup Coal Co., Ltd.,	338,297	683	206	889	241
Mount Lookout Coal Co.,	255,294	323	125	448	213
Murrin Coal Co.,	23,864	30	21	51	196
Nay Aug Coal Co.,	75,099	108	45	158	273

* Washery; not included in total average.

Table 3.—Production, employes, days worked, 1919—Continued

Operators	Production (net tons)	Employes inside	Employes outside	Total employes	Average days worked
Northern Anthracite Coal Co.,	180,705	237	95	332	205
Oak Hill Coal Co.,	194,681	218	110	328	237
Oak Run Coal Co.,	4,849	6	10	16	235
Pardee Brothers and Co., Inc.,	659,751	744	280	1,024	270
Peoples Coal Co.,	143,040	234	73	307	282
Pennsylvania Coal Co.,	5,867,541	8,726	2,800	11,526	280
Philadelphia and Reading Coal and Iron Co.,	13,305,983	16,656	8,435	25,091	253
Pine Hill Coal Co.,	284,320	425	210	635	261
Pittston Coal Mining Co.,	144,789	159	75	234	269
Plymouth Red Ash Coal Co.,	23,785	20	16	36	263
Port Carbon Coal Co.,	78,440	55	33	88	271
Price-Pancoast Coal Co.,	331,414	589	181	770	248
Quinn Coal Co.,	189,776	118	82	200	161
Racket Brook Coal Co.,	145,807	237	80	317	271
Raub Coal Co.,	85,177	208	71	279	170
Red Ash Coal Co.,	101,284	46	229	275	122
Reese Coal Co., Thomas R.,	6,564	8	14	22	225
Rhondda Coal Co.,	86,900	---------	13	13	200*
Robertson Coal Co.,	148,994	---------	83	83	184*
Saint Clair Coal Co.,	235,143	455	201	656	263
Scranton Anthracite Coal Co.,	57,428	150	48	198	305
Scranton Coal Co.,	1,837,667	2,899	1,135	4,034	220
Scranton-Taylor Coal Co.,	31,022	---------	29	29	166*
Se-Rob Coal Co.,	4,380	90	---------	90	26
Shamokin Red Ash Coal Co.,	83,130	---------	55	55	202*
Shawnee Coal Co.,	2,791	6	2	8	232
Sherman Coal Corporation,	1,201	24	28	52	23
Shipman Koal Co.,	154,596	220	120	340	260
Simpson Coal Co.,	8,749	15	10	25	191
Spencer Coal Co.,	56,289	143	27	170	280
Spruks Mining Co.,	6,017	---------	35	35	176
Stackhouse Coal Co., E. S.,	72,510	130	47	177	234
Staples and Bell, Inc., and Dexter and Carpenter, Inc.,	43,108	---------	74	74	134*
Susquehanna Collieries Co.,	4,642,225	5,782	3,015	8,797	259
Temple Coal Co.,	1,104,761	1,461	629	2,090	205
Thomas Colliery Co.,	191,661	219	142	361	245
Traders Coal Co.,	89,263	253	81	334	149
Trevorton Colliery Co.,	178,336	197	65	262	278
Upper Lehigh Coal Co.,	186,163	151	175	326	247
Van Wickle, Estate of A. S.,	200,645	191	172	363	303
Von Storch Collieries Co.,	118,172	307	232	539	50
Wentz Co., J. S.,	95,476	100	99	199	221
West End Coal Co.,	552,906	614	281	895	250
West Nanticoke Coal Co.,	85,549	139	63	202	215
White and Co.,	53,771	91	46	137	254
Wilben Coal Co.,	2,081	6	5	11	152
Wilkes-Barre Anthracite Coal Co.,	126,212	168	59	227	251
Wilkes-Barre Colliery Co.,	183,693	276	63	339	276
Wolf Collieries Co., Inc.,	59,641	80	14	94	282
Worden Coal Mining Co.,	23,593	---------	12	12	180*
Totals,	87,838,024	107,941	45,839	153,780	252

*Washery; not included in total average.

Table 3.—Production, employes, days worked, 1920

Operators	Production (net tons)	Employes inside	Employes outside	Total employes	Average days worked
Alden Coal Co.,	451,668	524	202	726	250
Alliance Coal Mining Co.,	276,901	257	207	464	278
Archbald Coal Co.,	128,281	182	116	298	281
Bald Mountain Coal Co.,	56,975	112	24	136	279
Barton Coal Co.,	81,329	--------	43	43	266*
Beaver Valley Coal Co.,	42,899	62	71	133	249
Bergen Coal Co.,	29,126	30	24	54	285
Bernice Anthracite Coal Co.,	12,967	48	27	75	194
Black Creek Coal Co.,	5,376	--------	10	10	176*
Black Diamond Fuel Co.,	19,987	--------	24	24	307*
Black Heath Co.,	11,312	11	5	16	264
Blanchard, C. N.,	24,644	5	31	36	220
Boland Coal Co., John J.,	9,333	21	7	28	219
Bright Coal Co.,	11,749	10	8	18	287
Buck Ridge Coal Mining Co.,	190,828	325	103	428	273
Buck Run Coal Co.,	242,658	298	117	415	272
Butcher Creek Coal Co.,	5,618	6	6	12	197
Cambridge Coal Co.,	26,203	26	25	51	255
Campion Coal Co.,	14,075	--------	12	12	113*
Carbondale Coal Mining Co.,	28,185	51	34	85	288
Carney and Brown Coal Co.,	34,351	46	29	75	235
Central Coal Co.,	75,069	128	36	164	282
Colonial Colliery Co.,	317,027	386	226	612	265
Conlon Coal Co., John,	73,930	96	23	119	303
Connell Anthracite Mining Co.,	284,079	316	144	460	258
Coxe Brothers and Co., Inc.,	1,912,348	1,597	741	2,338	281
Cranberry Creek Coal Co.,	977,141	862	484	1,346	289
Darkwater Coal Co.,	202,446	183	142	325	280
Delaware, Lackawanna & Western R. R. Co.,	10,866,570	12,973	3,313	16,286	286
Dennington Coal Co.,	42,053	--------	27	27	137*
Dodson and Co., Charles M.,	378,553	244	366	610	287
East Alden Mining Co.,	50,988	58	23	81	245
East Bear Ridge Coal Co.,	271,461	303	136	439	274
East Boston Coal Co.,	183,809	305	113	418	302
East Lehigh Coal Co.,	90,770	125	65	190	269
East Point Coal Co.,	56,839	82	58	140	274
Enterprise Coal Co.,	168,170	323	183	506	257
Evans Colliery Co.,	61,290	78	36	114	204
Excelsior Coal Co.,	216,160	179	155	334	263
Exeter Coal Co.,	20,186	37	19	56	287
Gibbons Coal Co., John,	40,193	44	17	61	306
Gorman and Campion Coal Co.,	59,166	62	48	110	273
Greenough Red Ash Coal Co.,	238,922	331	149	480	278
Green Ridge Coal Co.,	56,682	90	49	139	205
Grove Hill Coal Co.,	20,841	45	17	62	301
Haddock Mining Co.,	191,114	252	111	363	239
Harleigh-Brookwood Coal Co.,	731,520	491	470	961	192
Harwood Coal Co.,	141,766	196	195	391	288
Healey Coal Co.,	52,703	111	55	166	260
Hillman Coal Co.,	76,898	131	47	178	234
Hillside Coal and Iron Co.,	1,378,346	2,111	752	2,863	261
Hudson Coal Co.,	10,069,086	11,050	3,617	14,667	28[illegible]
Humbert Coal Co.,	24,787	84	55	139	111
Inter City Fuel Co., Inc.,	129,500	--------	87	87	270*
Jermyn and Co.,	385,556	710	173	883	258
John-Ames Coal Co.,	59,620	--------	44	44	181*
Kemmerer and Co., M. S.,	40,874	85	38	123	260
Kirby and Sons, Inc., J. W.,	11,737	23	16	39	300
Kingston Coal Co.,	975,411	1,404	601	2,005	297
Lackawanna Coal Co., Ltd.,	254,681	341	164	505	255
Lackawanna Valley Fuel Co.,	106,390	--------	49	49	307*.
Laurel Coal Mining Co.,	47,851	48	25	73	285
Lee Coal Co., George F.,	128,221	255	52	307	280
Legitts Creek Anthracite Co.,	277,589	452	212	664	272
Lehigh and Wilkes-Barre Coal Co.,	4,769,684	5,847	2,344	8,191	277
Lehigh Coal and Navigation Co.,	4,807,588	4,564	2,215	6,779	278
Lehigh Valley Coal Co.,	8,621,789	8,702	3,664	12,366	268
Locust Dale Coal Co.,	48,411	--------	46	46	93*
Locust Mountain Coal Co.,	647,498	392	474	866	287
Lytle Coal Co.,	390,396	380	248	628	268
Markle Co., G. B.,	1,396,790	1,133	781	1,914	268
Maryd Coal Co.,	249,026	228	139	367	367
Mc Turk Coal Co., W. R.,	136,547	151	141	292	236
Mid City Coal Co.,	79,676	136	46	182	281
Midvalley Coal Co.,	264,233	220	184	404	272

* Washery; not included in total average.

Table 3.—Production, employes, days worked, 1920—Continued

Operators	Production (net tons)	Employes inside	Employes outside	Total employes	Average days worked
Mill Creek Coal Co.,	330,847	348	238	586	262
Moffat, W. Y.,	45,321	78	7	85	285
Mount Jessup Coal Co., Ltd.,	494,164	722	199	921	295
Mount Lookout Coal Co.,	236,919	325	131	456	191
Murrin Coal Co.,	26,349	84	14	98	306
Nay Aug Coal Co.,	67,951	128	36	164	267
Northeast Coal Co.,	13,481	36	18	54	244
Northern Anthracite Coal Co.,	234,314	190	87	277	246
Norwegian Coal Co.,	17,716	--------	11	11	125*
Oak Hill Coal Co.,	179,481	172	122	294	275
Pardee Brothers and Co., Inc.,	749,081	727	288	1,015	275
Pennsylvania Coal Co.,	5,011,155	8,277	2,664	10,941	254
Petersburg Coal Co.,	8,833	18	8	26	277
Philadelphia and Reading Coal and Iron Co.,	14,162,557	16,374	9,157	25,531	275
Pine Hill Coal Co., Inc.,	277,865	390	189	579	275
Pittston Coal Mining Co.,	162,699	190	90	280	281
Pleasant Mount Coal Co.,	71,015	--------	79	79	124*
Plymouth Red Ash Coal Co.,	15,545	19	12	31	294
Port Carbon Coal Co.,	62,434	45	50	95	237
Price-Pancoast Coal Co.,	388,116	487	198	685	303
Quinn Coal Co.,	163,688	108	59	167	277
Racket Brook Coal Co.,	158,889	241	90	331	298
Raub Coal Co.,	97,999	183	71	254	227
Raven Run Coal Co.,	122,608	71	151	222	248
Red Ash Coal Co.,	120,123	40	250	290	219
Reese Coal Co., Thomas R.,	7,681	8	12	20	260
Repplier Coal Co.,	51,399	--------	60	60	98*
Rhondda Coal Co.,	141,810	--------	51	51	289*
Richmondale Coal Co.,	22,896	30	22	52	85
Robertson Coal Co.,	197,818	--------	81	81	276*
Saint Clair Coal Co.,	300,348	385	240	625	282
Scranton Anthracite Coal Co.,	100,776	198	33	231	224
Scranton Coal Co.,	1,658,331	2,529	1,052	3,581	202
Scranton-Taylor Coal Co.,	49,215	--------	20	20	300*
Se-Rob Coal Co.,	28,313	60	1	61	243
Shamokin Red Ash Coal Co.,	79,042	--------	56	56	202*
Shawnee Coal Co.,	10,953	11	3	14	208
Sherman Coal Corporation,	27,254	25	20	45	269
Shipman Koal Co.,	144,048	215	115	330	253
Slope Mountain Coal Co.,	2,301	19	20	39	54
Spencer Coal Co.,	69,767	140	30	170	267
Spruks Mining Co.,	--------	--------	43	43	--------
Stackhouse Coal Co., E. S.,	84,391	119	50	169	276
Staples & Bell, Inc., and Dexter & Carpenter, Inc.,	20,970	--------	60	60	93*
Suffolk Coal Co.,	254,600	389	101	490	289
Susquehanna Collieries Co.,	4,870,884	5,788	2,744	8,532	275
Temple Coal Co.,	946,848	1,056	516	1,572	218
Thomas Colliery Co.,	194,797	196	157	353	265
Traders Coal Co.,	172,546	270	90	360	259
Trevorton Colliery Co.,	155,072	210	65	275	252
Upper Lehigh Coal Co.,	208,324	176	133	309	282
Van Wickle, Estate of A. S.,	198,411	187	190	377	294
Von Storch Collieries Co.,	491,454	556	207	763	287
Wentz Co., J. S.,	118,813	80	110	190	216
West End Coal Co.,	607,084	684	285	969	294
West Nanticoke Coal Co.,	137,312	134	71	205	224
Wilben Coal Co.,	5,064	8	6	14	327
Wilkes-Barre Colliery Co.,	159,559	283	72	355	281
Wolf Collieries Co., Inc.,	40,239	61	14	75	273
Totals,	89,636,036	103,428	45,689	149,117	265

*Washery; not included in total average.

TABLE 4—Operators that produced in more than one county, 1919 and 1920.

Operators	County	1919 Employes inside	1919 Employes outside	1919 Total employes	1919 Production (net tons)	1920 Employes inside	1920 Employes outside	1920 Total employes	1920 Production (net tons)
Coxe Brothers and Co., Inc.,	Luzerne,	911	436	1,347	1,259,611	963	440	1,403	1,207,592
	Carbon,	234	173	407	385,066	254	182	436	370,330
	Schuylkill,	393	122	515	373,481	380	119	499	334,426
		1,538	731	2,269	2,018,158	1,597	741	2,338	1,912,348
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	8,706	2,110	10,816	5,672,696	7,158	1,887	9,045	5,222,729
	Luzerne,	5,770	1,333	7,103	5,306,750	5,815	1,426	7,241	5,643,841
		14,476	3,443	17,919	10,979,446	12,973	3,313	16,286	10,866,570
Harleigh-Brookwood Coal Co.,	Schuylkill,	466	410	876	617,050	422	454	876	722,955
	Luzerne,	90	39	129	56,018	69	16	85	8,565
		556	449	1,005	673,068	491	470	961	731,520
Hillside Coal and Iron Co.,	Luzerne,	1,429	567	1,996	998,496	1,324	520	1,844	850,994
	Susquehanna,	730	198	928	492,453	637	196	833	458,426
	Lackawanna,	180	42	222	81,435	150	36	186	68,926
		2,339	807	3,146	1,572,384	2,111	752	2,863	1,378,346
Hudson Coal Co.,	Lackawanna,	7,213	2,210	9,423	6,196,749	6,663	2,289	8,952	6,013,603
	Luzerne,	5,005	1,378	6,383	3,720,456	4,205	1,265	5,470	3,847,510
	Susquehanna,	216	44	260	211,458	-------	-------	-------	-------
	Wayne,	75	24	99	74,633	177	60	237	207,973
	Schuylkill,	5	3	8	-------	5	3	8	-------
		12,514	3,659	16,173	10,203,296	11,050	3,617	14,667	10,069,086

Inter City Fuel Co., Inc.,	Luzerne,						45	45	69,689
	Schuylkill,						42	42	59,901
							87	87	129,590
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	5,164	1,765	6,929	4,419,929	5,229	1,757	6,986	4,104,621
	Schuylkill,	648	600	1,248	711,657	618	587	1,205	665,063
		5,812	2,365	8,177	5,131,586	5,847	2,344	8,191	4,769,684
Lehigh Coal and Navigation Co.,	Carbon,	2,527	1,456	3,966	2,829,575	2,556	1,326	3,882	2,775,341
	Schuylkill,	2,040	1,115	3,155	1,933,231	2,008	889	2,897	2,032,247
		4,567	2,554	7,121	4,762,806	4,564	2,215	6,779	4,807,588
Lehigh Valley Coal Co.,	Luzerne,	5,478	2,075	7,553	4,742,603	5,334	2,106	7,440	4,785,889
	Schuylkill,	2,254	1,058	3,312	1,925,586	1,922	930	2,852	2,247,861
	Northumberland,	603	206	809	481,702	523	220	743	462,278
	Columbia,	494	282	776	445,353	510	280	790	805,184
	Lackawanna,	291	72	363	260,910	304	66	370	259,102
	Carbon,	97	51	148	19,320	109	62	171	61,475
		9,217	3,744	12,961	7,875,474	8,702	3,664	12,366	8,621,789
Pennsylvania Coal Co.,	Luzerne,	5,668	1,863	7,531	3,555,994	5,459	1,709	7,168	2,810,294
	Lackawanna,	3,058	937	3,995	2,311,547	2,818	955	3,773	2,200,871
		8,726	2,800	11,526	5,867,541	8,277	2,664	10,941	5,011,155
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	12,123	6,523	18,646	9,641,921	11,917	7,174	19,091	10,781,839
	Northumberland,	4,053	1,711	5,764	3,048,865	3,995	1,747	5,742	3,027,963
	Columbia,	480	201	681	615,197	462	236	698	352,755
		16,656	8,435	25,091	13,305,983	16,374	9,157	25,531	14,162,557
Quinn Coal Co.	Lackawanna,	45	55	100	133,776	51	43	94	134,217
	Luzerne,	73	27	100	56,000	57	16	73	29,471
		118	82	200	189,776	108	59	167	163,688

TABLE 4—Operators that produced in more than one county, 1919 and 1920—Continued.

Operators	County	1919 Employes inside	1919 Employes outside	1919 Total employes	1919 Production (net tons)	1920 Employes inside	1920 Employes outside	1920 Total employes	1920 Production (net tons)
Susquehanna Collieries Co.,	Northumberland,	2,056	1,147	3,203	1,781,642	2,054	999	3,053	1,832,657
	Luzerne,	2,262	1,078	3,340	1,701,315	2,262	995	3,257	1,841,890
	Dauphin,	1,156	615	1,771	847,491	1,170	579	1,749	895,837
	Schuylkill,	308	175	483	311,777	302	171	473	300,500
		5,782	3,015	8,797	4,642,225	5,788	2,744	8,532	4,870,884
Temple Coal Co.,	Lackawanna,	858	391	1,249	658,321	463	251	714	418,426
	Luzerne,	603	238	841	446,440	593	265	858	528,422
		1,461	629	2,090	1,104,761	1,056	516	1,572	946,848
Totals,		83,762	32,713	116,475	68,326,504	78,938	32,343	111,281	68,441,653

TABLE 5—Gaseous and non-gaseous mines in operation, number of mine foremen, assistant mine foremen and fire bosses, production and percentage of production from gaseous and non-gaseous mines and washeries, by districts, 1919

Districts	Gaseous mines				Non-gaseous mines			Production from gaseous mines (Net tons)	Production from non-gaseous mines (Net tons)	Production from washeries (Net tons)	Percentage of production from gaseous mines	Percentage of production from non-gaseous mines	Percentage of production from washeries
	Number in operation	Mine foremen	Assistant mine foremen	Fire bosses	Number in operation	Mine foremen	Assistant mine foremen						
1,	2	4	9	7	29	16	36	512,745	2,028,442	260,261	18.30	72.41	9.29
2,	2	3	4	4	25	16	56	485,725	2,864,884	168,680	13.80	81.41	4.79
3,	19	9	24	33	4	8	4	2,340,697	529,590	244,887	75.14	17.00	7.86
4,	12	13	27	21	1	1	3	2,011,837	4,380	89,855	95.52	.21	4.27
5,	16	10	37	9	10	3	21	1,737,376	912,768	293,872	59.01	31.01	9.98
6,	11	13	51	23	17	10	18	2,918,124	1,052,871	151,868	70.78	25.54	3.68
7,	11	9	33	10	10	9	14	967,476	1,849,709	39,519	33.87	64.75	1.38
8,	20	19	53	43	4	4	3	4,255,438	230,999	16,136	94.51	5.13	.36
9,	19	11	57	21	13	8	15	2,355,570	527,435	1,395	81.66	18.29	.05
10,	23	12	57	23	32	8	19	2,796,206	392,722	119,895	84.51	11.87	3.62
11,	22	15	59	65	1	1	----------	3,456,786	101,284	88,602	94.79	2.78	2.43
12,	29	16	37	76	4	2	3	3,907,265	122,880	52,548	95.70	3.01	1.29
13,	25	16	53	56	5	2	5	4,173,485	260,942	3,211	94.05	5.88	.07
14,	28	16	32	85	11	3	3	3,735,413	273,473	508,918	82.68	6.05	11.27
15,	20	15	43	9	43	20	22	2,643,958	2,365,985	----------	52.77	47.23	----------
16,	10	10	5	9	53	11	32	732,854	2,646,612	19,320	21.56	77.87	.57
17,	18	24	16	61	6	5	3	3,336,552	514,204	408,166	78.34	12.08	9.58
18,	22	12	30	34	23	12	20	2,148,863	1,629,481	26,171	56.48	42.83	.69
19,	24	12	39	36	15	4	7	2,185,836	352,698	108,519	82.58	13.32	4.10
20,	17	11	110	----------	1	1	----------	3,185,103	93,744	48,936	95.71	2.82	1.47
21,	17	14	91	155	6	5	9	2,903,065	936,379	279,386	70.48	22.74	6.78
22,	30	22	96	7	10	3	12	3,254,219	658,308	370,372	75.98	15.37	8.65
23,	9	11	22	33	13	7	14	1,748,980	1,085,778	146,457	58.67	36.42	4.91
24	22	10	45	28	16	5	17	2,379,806	711,079	----------	76.99	23.01	----------
25,	22	9	72	21	11	3	2	1,836,877	64,446	169,701	88.69	3.11	8.20
Totals,	450	316	1,102	869	363	162	338	62,010,256	22,211,093	3,616,675	70.59	25.29	4.12

TABLE 5—Gaseous and non-gaseous mines in operation, number of mine foremen, assistant mine foremen and fire bosses, production and percentage of production from gaseous and non-gaseous mines and washeries, by districts, 1920

Districts	Gaseous mines				Non-gaseous mines			Production from gaseous mines (Net tons)	Production from non-gaseous mines (Net tons)	Production from washeries (Net tons)	Percentage of production from gaseous mines	Percentage of production from non-gaseous mines	Percentage of production from washeries
	Number in operation	Mine foremen	Assistant mine foremen	Fire bosses	Number in operation	Mine foremen	Assistant mine foremen						
1,	1	3	5	4	32	19	41	254,682	2,367,142	473,992	8.23	76.46	15.31
2,	3	2	9	3	27	13	51	560,872	3,042,711	141,810	14.97	81.24	3.79
3,	13	11	48	29	4	3	7	2,462,980	424,233	357,538	75.67	13.34	10.99
4,	10	10	18	24	2	2	2	1,921,507	37,147	177,548	89.95	1.74	8.31
5,	6	6	29	7	9	5	17	1,508,045	918,425	209,719	57.20	34.84	7.96
6,	11	14	43	26	22	10	18	2,931,749	987,834	118,129	72.61	24.46	2.93
7,	11	9	29	17	12	9	24	1,893,054	894,749	91,268	65.75	31.08	3.17
8,	18	20	54	48	5	3	5	3,426,391	184,226	7,390	94.70	5.09	.21
9,	17	13	61	20	14	8	11	2,486,157	459,869	63,600	82.61	15.28	2.11
10,	18	13	62	26	18	7	16	3,023,066	536,519	----------	84.93	15.07	----------
11,	21	14	58	63	2	2	5	2,772,538	523,735	54,719	82.74	15.63	1.63
12,	12	14	31	77	4	4	9	3,899,643	282,971	196,757	89.05	6.46	4.49
13,	22	15	72	37	5	2	6	4,239,398	308,565	171,346	89.83	6.54	3.63
14,	28	13	47	60	20	8	7	3,435,623	862,411	471,221	72.04	18.08	9.88
15,	19	22	38	11	37	11	28	2,184,268	2,276,184	----------	48.97	51.03	----------
16,	11	7	14	6	46	15	31	1,201,870	2,370,432	14,075	33.51	66.10	.39
17,	14	31	18	67	5	2	3	3,620,626	192,726	462,688	84.67	4.51	10.82
18,	26	16	39	34	19	9	15	2,856,630	1,238,281	183,561	66.77	28.94	4.29
19,	21	12	42	33	9	4	9	2,069,001	337,163	340,175	75.34	12.28	12.38
20,	18	12	127	----------	----------	----------	----------	3,130,605	----------	349,245	89.96	----------	10.04
21,	21	17	89	10	3	2	11	3,351,505	701,714	390,135	75.43	15.79	8.78
22,	34	21	107	7	14	4	12	3,795,283	644,291	337,826	79.44	13.49	7.07
23,	7	7	24	36	12	6	13	1,664,862	939,977	322,318	56.88	32.11	11.01
24	21	9	49	27	17	6	30	1,296,257	1,515,128	----------	46.11	53.89	----------
25,	24	11	81	20	----------	----------	----------	2,157,294	----------	500,637	81.16	----------	18.84
Totals,	407	322	1,194	692	338	154	371	62,143,906	22,056,433	5,435,697	69.33	24.61	6.06

Table 6.—Total production, production from washeries, average production per day excluding washery production, production per employe, quantity of explosives used, production per pound of explosives used, 1899-1920

Years	Total production (net tons)	Production per employe	Production from washeries (net tons)	Average production per day excluding washery production	Explosives used (pounds)			Production per pound of explosives used.
					Black powder	Dynamite	Permissible explosives	
1899,	60,518,331	430	1,055,125	332,195	34,317,275	3,649,417	----------	1.59
1900,	57,363,396	399	1,818,170	315,598	30,929,500	3,454,641	----------	1.67
1901,	67,094,665	454	2,009,864	333,763	38,020,100	4,155,685	----------	1.59
1902,	41,340,935	*279	2,965,792	330,820	21,128,675	2,130,965	----------	1.77
1903,	75,232,585	496	4,119,258	337,030	42,529,400	5,317,422	----------	1.57
1904,	73,594,369	456	3,440,420	329,361	44,779,800	6,519,312	----------	1.43
1905,	78,647,020	467	3,897,688	359,371	47,570,500	8,353,594	----------	1.41
1906,	72,139,510	434	4,830,402	326,413	40,352,075	7,980,733	----------	1.41
1907,	86,056,412	510	5,630,169	354,303	47,636,700	10,544,781	----------	1.48
1908,	83,543,243	479	4,635,923	373,968	49,380,800	10,766,245	----------	1.39
1909,	80,223,833	469	5,206,562	365,938	41,190,857	10,724,616	666,827	1.53
1910,	83,683,994	498	5,412,167	369,207	45,112,322	11,171,458	1,506,140	1.45
1911,	90,917,176	525	4,555,457	369,067	47,846,483	13,369,056	2,122,264	1.44
1912,	84,426,869	482	4,317,161	364,135	41,401,015	13,685,062	2,037,026	1.48
1913,	91,626,964	523	2,934,157	366,499	44,001,660	16,093,035	3,323,645	1.44
1914,	91,189,641	504	2,702,537	386,407	44,336,113	17,244,174	4,246,347	1.39
1915,	89,377,706	504	3,418,427	388,956	42,763,060	15,376,447	5,577,707	1.40
1916,	87,680,198	551	4,432,606	338,405	35,126,079	15,542,761	9,953,399	1.45
1917,	100,445,299	643	6,408,277	348,285	33,923,147	15,758,593	7,472,744	1.78
1918,	99,445,794	671	7,246,454	325,793	28,888,905	15,794,649	8,220,147	1.88
1919,	87,838,024	571	3,616,675	339,602	27,050,730	17,118,222	9,168,410	1.65
1920,	89,636,036	601	5,435,697	315,357	22,195,338	18,171,211	9,232,010	1.81

*Year of strike.

TABLE 7.—Number of each class of employes inside and outside, by districts, 1919

Occupations	Districts												
	1	2	3	4	5	6	7	8	9	10	11	12	13
Inside													
Mine foremen,	20	19	12	14	13	23	18	23	19	20	16	18	18
Assistant mine foremen,	45	60	28	30	58	69	47	56	72	76	59	40	58
Fire bosses,	7	4	33	22	9	23	10	43	21	31	65	76	56
Miners,	1,558	1,617	1,254	1,128	1,653	1,886	1,709	2,793	1,656	1,911	1,797	1,897	2,185
Miners' laborers,	626	1,207	1,138	944	1,381	1,451	1,441	1,751	430	733	756	929	916
Machine miners,	24	6	53	95	43	71	8	74	7	5	--------	4	--------
Machine runners and scrapers,	2	26	23	28	91	48	13	24	6	20	--------	3	--------
Drivers and runners,	273	424	392	486	200	338	213	463	487	545	502	528	329
Motormen and assistants,	139	227	158	111	290	278	188	352	101	128	102	137	114
Doorboys and helpers,	63	107	80	93	66	70	44	101	50	74	132	162	13
Trackmen and bratticemen,	150	142	95	107	142	136	120	230	157	184	138	200	98
Timbermen and rockmen,	54	34	97	93	46	81	56	137	84	141	141	148	40
Pumpmen and pipemen,	52	29	42	52	65	58	45	56	92	63	49	53	[illegible]
Electricians and helpers,	28	12	19	25	35	32	30	52	14	13	11	18	9
All other employes,	438	533	628	533	615	667	495	805	392	550	804	788	7,2
Totals,	3,479	4,447	4,052	3,761	4,707	5,231	4,437	6,960	3,588	4,494	4,572	5,001	5,1 0
Outside													
Superintendents,	11	13	7	4	7	13	10	7	2	8	3	5	6
Foremen,	22	24	18	12	12	18	11	13	13	19	14	12	12
Blacksmiths and carpenters,	121	107	122	99	103	163	130	234	168	106	98	115	174
Engineers and firemen,	172	175	172	126	103	207	123	207	228	184	229	211	202
Machinists and helpers,	49	48	26	12	20	64	26	85	32	24	20	23	20
Trackmen and helpers,	22	44	3	2	4	12	18	27	16	18	10	7	26
Slatepickers (boys),	152	125	81	154	226	190	197	279	120	110	78	89	153
Slatepickers (men),	89	126	176	61	31	89	25	55	56	45	69	55	39
Office employes,	44	53	42	30	33	47	33	24	37	47	40	34	33
All other employes,	820	929	708	576	704	960	707	1,318	735	675	962	962	775
Totals,	1,502	1,644	1,355	1,076	1,243	1,763	1,280	2,249	1,406	1,236	1,513	1,513	1,440
Grand totals inside and outside,	4,981	6,091	5,407	4,837	5,950	6,994	5,717	9,209	4,994	5,730	6,085	6,514	6,570

TABLE 7—**Continued**

Occupations	Districts												
	14	15	16	17	18	19	20	21	22	23	24	25	Grand totals inside and outside
Inside													
Mine foremen,	19	35	21	29	24	16	12	19	25	18	15	12	478
Assistant mine foremen,	35	65	37	19	50	46	110	100	108	36	62	74	1,440
Fire bosses,	85	9	12	61	34	36	--------	161	7	33	28	21	887
Miners,	2,043	2,161	1,626	1,760	2,104	1,433	1,672	1,727	2,217	2,058	1,783	1,391	45,019
Miners' laborers,	1,197	539	539	54	291	344	545	650	538	209	300	298	19,207
Machine miners,	3	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	393
Machine runners and scrapers,	3	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	287
Drivers and runners,	375	263	254	59	227	211	190	172	242	258	240	195	7,866
Motormen and assistants,	236	92	63	179	76	39	12	83	80	64	24	30	3,403
Doorboys and helpers,	99	42	45	27	28	11	38	39	44	30	39	24	1,651
Trackmen and bratticemen,	196	173	144	114	147	110	236	156	248	117	142	274	4,056
Timbermen and rockmen,	300	371	197	721	297	154	155	349	415	109	191	412	4,923
Pumpmen and pipemen,	54	66	62	6	25	47	34	51	77	66	54	37	1,307
Electricians and helpers,	35	18	10	48	24	9	4	14	23	8	2	6	519
All other employes,	641	453	204	984	642	687	993	764	961	683	645	828	16,505
Totals,	5,321	4,287	3,214	4,061	3,969	3,143	4,001	4,280	4,985	3,689	3,525	3,602	107,941
Outside													
Superintendents,	8	7	11	9	11	12	--------	7	7	5	4	2	179
Foremen,	14	26	31	18	22	17	13	26	18	12	14	9	420
Blacksmiths and carpenters,	205	190	196	226	177	121	108	183	184	109	85	115	3,639
Engineers and firemen,	261	331	300	321	267	282	260	294	356	298	232	271	5,816
Machinists and helpers,	75	56	44	247	47	26	13	47	29	40	25	30	1,134
Trackmen and helpers,	34	75	61	44	29	21	7	72	29	24	20	20	645
Slatepickers (boys),	211	91	156	115	211	138	181	283	151	275	129	57	3,952
Slatepickers (men),	60	103	60	108	88	76	157	92	192	95	90	14	2,050
Office employes,	66	57	57	45	47	62	41	75	56	66	52	30	1,151
All other employes,	1,208	1,609	1,585	1,130	1,414	1,171	1,269	1,736	1,822	957	1,042	1,089	26,853
Totals,	2,142	2,545	2,501	2,263	2,313	1,926	2,049	2,815	2,844	1,881	1,693	1,647	45,839
Grand totals inside and outside,	7,463	6,832	5,715	6,324	6,282	5,069	6,050	7,100	7,829	5,570	5,218	5,249	153,780

TABLE 7.—Number of each class of employes inside and outside, by districts, 1920

Occupations	Districts												
	1	2	3	4	5	6	7	8	9	10	11	12	13
Inside													
Mine foremen,	22	15	14	12	11	24	18	23	21	20	16	18	17
Assistant mine foremen,	46	60	55	20	46	61	53	59	72	78	63	40	78
Fire bosses,	9	3	30	25	14	26	17	48	20	30	63	77	83
Miners,	1,602	1,557	1,422	911	1,291	1,905	1,683	2,667	1,675	1,905	1,639	1,901	2,155
Miners' laborers,	571	1,022	1,132	712	1,053	1,225	1,275	1,584	398	625	686	866	906
Machine miners	4	4	14	16	7	2	1	9	7	9	--------	6	2
Machine runners and scrapers,	25	16	27	18	47	17	1	12	5	13	--------	2	2
Drivers and runners,	297	406	492	349	184	329	222	483	494	559	487	550	311
Motormen and assistants,	159	251	187	121	243	277	193	374	119	141	104	130	208
Doorboys and helpers,	63	111	64	69	31	66	32	90	52	58	160	165	161
Trackmen and bratticemen,	138	142	111	79	107	139	123	227	156	167	174	205	206
Timbermen and rockmen,	48	50	110	76	53	68	77	148	116	120	171	154	171
Pumpmen and pipemen,	60	33	50	47	54	63	50	56	112	68	54	51	78
Electricians and helpers,	40	14	28	27	30	38	33	48	22	18	10	23	29
All other employes,	288	470	577	404	457	599	550	892	317	547	620	739	857
Totals,	3,372	4,154	4,313	2,886	3,628	4,839	4,328	6,720	3,586	4,358	4,247	4,927	5,219
Outside													
Superintendents,	17	10	8	6	10	13	10	7	7	9	3	6	4
Foremen,	24	18	18	12	16	16	10	10	19	18	12	12	12
Blacksmiths and carpenters,	105	101	125	90	115	153	128	218	182	118	79	120	217
Engineers and firemen,	186	217	189	122	119	203	112	220	221	220	266	267	186
Machinists and helpers,	43	47	40	10	21	61	27	85	39	28	18	27	22
Trackmen and helpers,	44	20	4	1	4	22	20	25	23	19	11	8	24
Slatepickers (boys),	96	114	73	102	174	171	187	182	133	124	82	66	172
Slatepickers (men),	113	124	143	84	40	100	21	54	51	41	57	40	29
Office employes,	54	45	49	22	26	40	33	32	38	44	39	31	34
All other employes,	835	1,014	715	622	702	917	681	1,190	822	686	950	988	835
Totals,	1,517	1,710	1,364	1,071	1,227	1,696	1,229	2,023	1,535	1,307	1,517	1,565	1,535
Grand totals inside and outside,	4,889	5,864	5,677	3,957	4,855	6,535	5,557	8,743	5,121	5,665	5,764	6,492	6,754

TABLE 7—Continued.

Occupations	Districts												Grand totals inside and outside
	14	15	16	17	18	19	20	21	22	23	24	25	
Inside													
Mine foremen,	21	33	22	33	25	16	12	19	25	13	15	11	476
Assistant mine foremen,	54	66	45	21	54	51	127	100	119	37	79	81	1,565
Fire bosses,	60	11	6	67	34	33	-------	18	7	41	27	20	724
Miners,	2,169	2,122	1,611	1,748	2,057	892	1,463	1,791	1,892	2,011	1,709	1,136	42,914
Miners' laborers,	1,154	466	542	42	309	285	281	334	383	190	278	269	16,588
Machine miners,	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	81
Machine runners and scrapers,	-------	-------	-------	-------	-------	-------	-------	-------	6	-------	-------	-------	191
Drivers and runners,	396	263	253	76	230	187	186	159	241	293	214	193	7,854
Motormen and assistants,	259	97	67	152	84	41	20	88	90	70	19	23	3,517
Doorboys and helpers,	75	45	44	27	28	14	36	43	57	29	40	25	1,585
Trackmen and bratticemen,	197	177	131	113	145	102	209	186	257	115	153	302	4,061
Timbermen and rockmen,	256	346	170	618	287	141	180	276	388	111	220	361	4,716
Pumpmen and pipemen,	58	86	94	9	46	57	41	54	95	69	70	69	1,524
Electricians and helpers,	22	16	14	64	12	9	4	10	14	9	2	2	538
All other employes,	626	357	229	1,094	792	807	1,280	1,043	1,067	718	771	993	17,094
Totals,	5,347	4,085	3,228	4,064	4,103	2,635	3,839	4,121	4,641	3,706	3,597	3,485	103,428
Outside													
Superintendents,	8	7	9	9	11	9	-------	6	7	5	3	2	186
Foremen,	15	24	31	18	24	17	10	29	16	11	13	9	414
Blacksmiths and carpenters,	171	189	218	158	167	108	87	218	170	114	86	102	3,539
Engineers and firemen,	229	320	275	262	303	290	283	334	402	230	287	318	6,061
Machinists and helpers,	83	51	45	226	51	24	17	66	35	37	20	33	1,156
Trackmen and helpers,	48	67	61	96	37	19	8	57	30	16	22	24	710
Slatepickers (boys),	187	94	165	95	140	143	81	220	131	196	13	37	3,296
Slatepickers (men),	57	86	43	16	106	62	235	108	201	76	8	14	1,984
Office employes,	61	55	52	45	57	51	45	78	60	45	5	28	1,116
All other employes,	1,223	1,452	1,644	1,061	1,728	1,088	1,283	1,673	1,928	1,003	1,035	1,153	27,228
Totals,	2,082	2,345	2,543	1,986	2,624	1,811	2,049	2,789	2,980	1,733	1,731	1,720	45,689
Grand totals inside and outside,	7,429	6,430	5,771	6,050	6,727	4,446	5,888	6,910	7,621	5,439	5,328	5,205	149,117

TABLE 8.—Causes and location of fatalities, by districts, 1919

Inside	Districts																									Totals
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Falls of coal at face,							1	1	2	2	5	1	3	1	1	3	2			2	2		1	1	2	30
Falls of coal at pillar work,	1	2					1		3			1		1	2	1				2	3			1		18
Falls of coal on gangways,							1										1			2						4
Falls of coal in old workings,											1															1
Falls of coal in chutes,																				1						1
Falls of coal in strippings,								1																		1
Falls of slate at face,												1			2				5				3	1	1	13
Falls of slate at pillar work,															1								4	1	1	7
Falls of slate on gangways,												1			1											2
Falls of slate in headings,																									3	3
Falls of roof at face,	5	4	6	4	7	5	1	8	2	6	8	6	5	6	1	3		2		2	3	1		2		87
Falls of roof at pillar work,	3	9			5		3	1	2					1	2	1		1		4	2	2		2		38
Falls of roof on gangways,	2		1			1							1			1	1			1		2			1	11
Falls of roof in chambers,								1													2					3
Falls of roof on slopes and planes,	1						2					1														4
Falls of roof in headings,											1															1
Falls of roof in old workings,																1										1
Falls of roof in tunnels,												1														1
Falls of roof in crosscuts,											1															1
Falls of roof in room where cars are stored,					1																					1
Cars on gangways,	3	1	1	5	1	6	3	2		1	3		7	3	3	2	2	3			1	2	1		1	51
Cars on slopes,			1										3			1			1		1					7
Cars on planes,										1																1
Cars at foot of shafts,						1																				1
Cars at foot of slopes,						1	1								1				1		2		1	1	1	9
Cars at foot of planes,													1													1
Cars in chambers,			1	1					1			1														4
Explosions of gas in chambers,								1		2	1			5			1	1		3	1	4		2		21
Explosions of gas on gangways,												1					8									9
Explosions of gas in old workings,			1																							1
Explosions of gas in cross headings,										3													2			5
Explosions of gas in chutes,													1					1								2
Explosions of gas in tunnels,																									4	4
Explosions of gas in shafts,																	1									1
Suffocated by gas in chutes,														2			1	1								4
Suffocated by gas in chambers,																				1						1

Suffocated by gas in old workings,																							1			1
Explosions of blasts at face of working places,	3	1	4	1	3	3	2	1	2	6	1	1	4	1		1		3	1	1	1	3	1	3	2	49
Explosions of blasts on gangways,												1														1
Explosions of blasts at pillar work,					1	2	1																			4
Explosions of blasts in headings,								1																		1
Explosions of blasts at batteries,																				1						1
Explosion of powder in tunnel,											*92															92
Falling into shafts,			1	1									1								1	1				5
Cage falling into shaft,																				3						3
Cars falling down shafts,					2		1																			3
Falling into slopes, etc.,														1			1							1	2	5
Crushed at batteries,																			1							1
Electricity on gangways,														1					1							2
Electricity on slopes,														1												1
Electricity in engine room,													1													1
Machinery on plane,								1																		1
Animals,													1													1
Struck by flying objects,		1																								1
Struck by piece of rock,					1																					1
Struck by timber (dislodged or being handled),				1				1			1	1					3			1	1	1		1	1	12
Rush of coal in chutes,																	2	3				2			1	8
Rush of coal in chambers,																					1	2		1		4
Rush of coal in pillar,																					1	1				2
Rush of water in chambers,																									1	1
Rush of air on gangways,																							2			2
Rush of air in breasts,																			2							2
Striking head against roof,														1												1
Objects falling from cars,		2						1																		3
Cause unknown,		1																								1
Totals,	18	21	16	18	21	19	17	20	12	21	114	17	28	24	14	14	23	15	12	24	22	21	16	17	21	560

*Baltimore Tunnel, Baltimore No. 5 Colliery, disaster.

TABLE 8.—Causes and location of fatalities, by districts, 1919—Continued

Outside	Districts																									Totals
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Cars,	2		1						1							2	3	3	2	2	2	1	3	2	2	26
Railroad cars,	1	1						2			1	2			2									1	1	11
Machinery,	1			1	1	2			1					1	1	1	1		1		1		1	2	1	16
Boiler explosions,																						2				2
Electricity,							1								1											2
Animals,																			1							1
Falling objects,																								1		1
Suffocated by rush of culm,	1																									1
Suffocated by rush of clay,																					1					1
Suffocated in coal pocket,																						1				1
Falls of person,								1				1	1			1	1				2					7
Burned by hot ashes,										1																1
Burned by gas from fire,																					1					1
Struck by timber,																							1			1
Struck by telephone pole,												1														1
Struck by piece of coal,																				1						1
Asphyxiated at bore hole,											1															1
Clothing caught fire,																			1							1
Totals,	5	1	1	1	1	2	1	3	2	1	2	4	1	1	4	4	5	3	5	3	7	4	5	6	4	76
Grand totals,	23	22	17	14	22	21	18	23	14	22	116	21	29	25	18	18	28	18	17	27	29	25	21	23	25	636

TABLE 8.—Causes and location of fatalities, by districts, 1920

Inside	Districts																									Totals
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Falls of coal at face,						2		1	2	1	1	1	3	1	1		1			5	2	3		2		26
Falls of coal at pillar work,	1				4	1			1		1			2		1				2						13
Falls of coal on gangways, etc.,								1											1							2
Falls of coal in crosscuts,															1											1
Falls of coal in chambers,																	1									1
Falls of slate at face,																		1	1	1		1	1		3	8
Falls of slate at pillar work,																1			1				2		1	5
Falls of slate on gangways, etc.,																				1			1			2
Falls of roof at face,	5	5	8	8	3	4	2	11		1	4	6	2	3	5	1			1		1	1		1	3	70
Falls of roof at pillar work,	2	5	3		4	2	6		2	1			2	1		4		3						2		37
Falls of roof on gangways, etc.,								1			1	1		2	1					1		1				8
Falls of roof in chambers,								1			2			2		3										8
Falls of roof in headings and airways,								3																1		4
Falls of roof in old workings,											1	1	1					1								4
Falls of roof on slopes,											1															1
Cars on gangways,	2	1	1	1	2			2	1			2	2	3		1	2	1	2	2	1	3	1	5		35
Cars on slopes,										1	3			2				3			3		1	1		14
Cars on planes,										1		1														2
Cars at foot of slopes,						1														1			2			4
Cars in chambers,						1		1																		2
Explosions of gas in chambers,								1						1	1	1	4			2	1			1		12
Explosions of gas on gangways,					1													1	1		1					4
Explosions of gas in old workings,			1		2			3		1			3	1												11
Explosions of gas in airways,				1																						1
Explosions of gas in chutes,													1	1												2
Explosions of gas at pillar work,																		1	3						1	5
Suffocated by gas in chutes,																	1								2	3
Suffocated by gas in headings,																					1					1
Suffocated by gas in chambers,																						3		2		5
Explosions of blasts at face of working places,	3	3	4	2	5	1	1	1	1	1	3	1	3	3	2		2	1		1						38
Explosions of blasts on gangways,							1										1	1			1		1	1		6
Explosions of blasts at pillar work,									1																	1
Explosions of blasts in headings and airways,								1			1															2
Explosions of blasts in chutes,																				1						1
Explosions of powder and dynamite in shafts,						1																				1
Explosions of powder and dynamite in working places,															1										1	2

TABLE 8.— Causes and location of fatalities, by districts, 1920—Continued

Inside	Districts																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
Falling into shafts,			3					1				1						5					2			12
Thrown against cage,			1																							1
Falling off cage,																						3				3
Falling into slopes, etc.,																	1	1				1	1	1	1	6
Electricity on gangways,									2					1								1				4
Electricity on planes,										1																1
Machinery,						1																				1
Animals,	1																					1	2			4
Rush of coal in manways,																				1						1
Rush of coal at batteries,														1												1
Rush of coal in chutes,																	1				2	1		1		5
Rush of coal and slush in pillar,															1			1			1					3
Rush of rock at face of gangway,										1																1
Rush of air on gangway,																			1							1
Struck by timber (dislodged or being handled),					1			1	2		2			1	1	1							1			10
Struck by rope on gangway,			1																							1
Struck by piece of coal in chute,															1											1
Struck by rail on gangway,																		1								1
Falls of persons,			1																							1
Objects falling from cars,	1																1									2
Cause unknown,																			1							1
Totals,	15	14	23	7	22	14	10	29	12	9	20	14	17	25	15	13	15	21	12	18	14	19	15	18	12	403

TABLE 8.—Causes and location of fatalities, by districts, 1920—Continued

Outside	Districts																									Totals
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Cars,	1	1					1	1	1	2	2	1		1	1	1	2	2	3		1	2	2	1	1	27
Railroad cars,		1					1		1			1						1					1			6
Machinery,		1		1	1	2		1	1				2	4				1		2	1	2		1	1	21
Electricity,											1						1									3
Animals,										1																1
Falls of person,			2																							2
Falling objects,			4																							7
Rush of coal,					1										2				1							8
Explosions of blasts in stripping,										1						1				2	2	1				2
Struck by rope,																1					1					1
Suffocated in coal pocket,										2		1														2
Scalded by steam from hot ashes,									1																	2
Scalded by hot water in boiler house,												1														2
Infection from injury received in carpenter shop,							1												1					1		1
Infection from injury received when he stepped on nail,																				1						1
Asphyxiated by carbon monoxide,													1													1
Totals,	1	3	6	1	2	2	3	2	4	6	3	4	3	6	4	3	3	4	5	5	5	5	3	3	2	87
Grand totals,	16	17	29	8	24	16	13	31	16	15	23	18	20	30	19	16	18	25	17	23	19	24	18	21	14	490

Widows, 322; orphans, 740.

TABLE 9—Operators that had fatalities, fatalities per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, 1919

Operators	Causes of fatalities inside									Causes of fatalities outside						
	Falls	Cars	Gas (including explosions, burnings, suffocations)	Electricity	Miscellaneous	Total	Fatalities inside per 1,000 employes	Fatalities inside per 1,000,000 tons produced	Production per fatality inside (net tons)	Cars	Machinery	Electricity	Miscellaneous	Total	Fatalities inside and outside per 1,000 employes	Fatalities inside and outside per 1,000,000 tons produced
Alden Coal Co.,	1		2	1		4	7.34	9.42	106,123						5.28	9.42
Bald Mountain Coal Co.,		1			2	3	32.61	70.18	14,250						7.27	70.18
Buck Ridge Coal Mining Co.,		1				1	3.33	5.15	194,279						2.50	5.15
Buck Run Coal Co.,	1			1		2	5.85	8.29	120,608		1			1	6.26	12.44
Colonial Collieries Co.,										1				1	1.80	3.26
Conlon, John,	1					1	10.00	20.15	49,621						8.77	20.15
Connell Anthracite Mining Co.,	2					2	5.62	6.52	153,467						4.02	6.52
Coxe Brothers and Co., Inc.,	2	1				3	1.95	1.49	672,719						1.32	1.49
Cranberry Creek Coal Co.,	1					1	1.29	1.19	838,896	1				1	1.60	2.38
Delaware, Lackawanna and Western Railroad Co.,	31	10	9	1	17	68	4.70	6.19	161,462	1	1	1	1	4	4.02	6.55
Dodson and Co., Charles M.,	2	2			1	5	18.05	15.82	63,219	1			1	2	10.89	22.14
East Alden Mining Co.,					1	1	17.85	28.40	35,213						13.51	28.40
East Bear Ridge Coal Co.,													1	1	2.13	4.04
East Boston Coal Co.,	1					1	3.66	5.58	179,068						2.68	5.58
Evans Colliery Co.,	1					1	10.75	21.76	45,961						7.41	21.76
Excelsior Coal Co.,										1				1	3.23	4.67
Girard-Mammoth Coal Co.,													2	2	6.78	16.17
Green Ridge Coal Co.,		1				1	9.26	13.54	73,880						6.13	13.54
Haddock Mining Co.,	1					1	3.85	5.02	199,189						2.67	5.02
Harleigh-Brookwood Coal Co.,	1	1			2	4	7.19	5.94	168,267						3.98	5.94
Harwood Coal Co.,	1					1	4.52	5.35	186,780						2.41	5.35
Hillside Coal and Iron Co.,	8	1			1	10	4.28	6.36	157,238	1	1			2	3.81	7.63
Hudson Coal Co.,	30	9	4		106	149	11.90	14.60	68,478	3	2		2	7	9.65	15.29
Jermyn and Co.,					1	1	1.72	4.06	246,298						1.36	4.06
Kingston Coal Co.,	6				1	7	4.56	6.54	152,967		1			1	3.77	7.47
Legitts Creek Anthracite Co.,	1					1	4.05	15.79	63,348						2.26	15.79
Lehigh and Wilkes-Barre Coal Co.,	14	4			3	21	3.61	4.09	244,361	1	1			2	2.81	4.48
Lehigh Coal and Navigation Co.,	4	2	13		7	26	5.69	5.46	183,185	3	1		1	5	4.35	6.51
Lehigh Valley Coal Co.,	21	11	2		8	42	4.56	5.33	187,511	4	1	1	2	8	3.86	6.35
Locust Mountain Coal Co.,	3				2	5	12.72	8.35	119,801	2	1			3	9.45	13.35

Lytle Coal Co.,	2	1				3	6.91	7.12	140,464						4.35	7.12
Markle Co., G. B.,	2	2				4	3.06	2.00	500,134	1				1	2.26	2.50
Midvalley Coal Co.,	2					2	7.52	6.52	153,402						4.46	6.52
Mill Creek Coal Co.,	1					1	2.67	2.96	338,220						1.64	2.96
Pennsylvania Coal Co.,	34	6	15			4	5.86	11.82	84,559						4.50	11.82
Peoples Coal Co.,	1	1				4	5.38	6.06	164,938						3.91	6.06
Philadelphia and Reading Coal and Iron Co.,	1				1	28	3.21	4.77	209,555	2			1	3	2.69	5.28
Pine Hill Coal Co.,		1			1	1	4.27	6.99	143,040						3.26	6.99
Pittston Coal Mining Co.,	1				1	2	4.92	6.16	162,268	11	3		5	19	4.03	7.59
Port Carbon Coal Co.,		1			1	2	4.71	7.03	142,160				1	1	4.72	10.55
Price-Pancoast Coal Co.,					2	1	6.29	6.91	144,789						4.27	6.91
Rock Brook Coal Co.,	4	6			1		33.36	25.50	39,220						22.73	25.50
Saint Clair Coal Co.,							3.40	6.03	165,707						2.60	6.03
Scranton Coal Co.,	1				6	3	8.44	13.71	72,904	1				1	9.46	20.57
Shipman Koal Co.,	18	4	5			2	2.20	4.25	235,143						1.52	4.25
Stackhouse Coal Co., E. S.,	4	1					4.14	6.53	153,139	1	1		1	3	3.72	8.16
Susquehanna Collieries Co.,	1				1		4.55	6.47	154,596	1				1	5.88	12.94
Temple Coal Co.,							7.69	13.79	72,510		1			1	11.30	27.58
Traders Coal Co.,	1			1	1	2	5.71	7.11	140,673	1	1		1	3	4.09	7.75
Trevorton Colliery Co.,							3.42	4.53	220,952						2.39	4.53
Van Wickle Estate, A. S.,						1	3.95	11.20	89,263						2.99	11.20
West End Coal Co.,						1	5.08	5.61	178,336						3.82	5.61
West Nanticoke Coal Co.,	1				1		5.24	4.98	200,645						2.75	4.98
Wilkes-Barre Anthracite Coal Co.,							3.25	3.62	276,453						2.23	3.62
Wilkes-Barre Colliery Co.,													1	1	4.95	11.69
							5.95	7.92	126,212				1	1	8.81	15.85
							3.62	5.44	183,693						2.95	5.44

TABLE 9.—Operators that had fatalities, fatalities per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, 1920

Operators	Causes of fatalities inside						Fatalities inside per 1,000 employes	Fatalities inside per 1,000,000 tons produced	Production per fatality inside (net tons)	Causes of fatalities outside					Fatalities inside and outside per 1,000 employes	Fatalities inside and outside per 1,000,000 tons produced
	Falls	Cars	Gas (including explosions, burnings, suffocations)	Electricity	Miscellaneous	Total				Cars	Machinery	Electricity	Miscellaneous	Total		
Alden Coal Co.,	2				1	3	5.73	6.64	150,556						4.13	6.64
Alliance Coal Mining Co.,					4	4	15.53	14.45	69,225						8.62	14.45
Bergen Coal Co.,	2					2	66.67	68.67	14,563						37.04	68.67
Buck Ridge Coal Mining Co.,	1		2			3	9.23	15.72	63,600						7.01	15.72
Buck Run Coal Co.,	1				1	2	6.71	8.24	121,329						4.82	8.24
Colonial Colliery Co.,		1				1	2.59	3.15	317,027	1				1	3.27	6.31
Conlon Coal Co., John,	1					1	10.42	13.53	73,930						8.40	13.53
Connell Anthracite Mining Co.,	1	1				2	6.33	7.04	142,040						4.35	7.04
Coxe Brothers and Co., Inc.,	3				1	4	2.50	2.09	478,087				1	1	2.14	2.61
Cranberry Creek Coal Co.,	4	1				5	5.80	5.12	195,428	1				1	4.46	6.14
Darkwater Coal Co.,										1				1	3.08	4.94
Delaware, Lackawanna & Western Railroad Co.,	15	4	4	1	13	37	2.85	3.40	293,691	1	4		2	7	2.70	4.05
East Alden Mining Co.,	1					1	17.24	19.61	50,988						12.35	19.61
East Bear Ridge Coal Co.,	1				1	2	6.60	7.37	135,731						4.56	7.37
East Boston Coal Co.,	1					1	3.28	5.44	183,809						2.39	5.44
Enterprise Coal Co.,										1				1	1.98	5.95
Gibbons Coal Co., John,	1					1	22.73	24.88	40,193						16.39	24.88
Greenough Red Ash Coal Co.,					1	1	3.02	4.19	238,922						2.08	4.19
Harleigh-Brookwood Coal Co.,													1	1	1.04	1.37
Healey Coal Co.,													1	1	6.02	18.97
Hillman Coal Co.,					1	1	7.63	14.10	70,898						5.02	14.10
Hillside Coal and Iron Co.,	5					5	2.37	3.63	275,669	1			1	2	2.44	5.08
Hudson Coal Co.,	25	6			12	43	3.89	4.27	234,165	2			6	8	3.48	5.07
Inter City Fuel Co., Inc.,										1				1	11.49	7.72
Jermyn and Co.,	2					2	2.82	5.19	192,778	1				1	3.40	7.78
Kemmerer and Co., M. S.,	1					1	11.76	24.47	40,874						8.13	24.47
Kingston Coal Co.,	2					2	1.42	2.05	487,706	1				1	1.50	3.08
Lackawanna Coal Co., Limited,	1				1	2	5.87	7.85	127,341						3.96	7.85
Lackawanna Valley Fuel Co.,											1			1	20.41	9.40
Legitts Creek Anthracite Co.,			1			1	2.21	3.60	277,589						1.51	3.60

Lehigh and Wilkes-Barre Coal Co.,	18		3		4	25	4.28	5.24	190,787		2		2	4	3.54	6.68
Lehigh Coal and Navigation Co.,	2	2	5		6	15	3.29	3.12	320,506	2		1		3	2.66	3.74
Lehigh Valley Coal Co.,	13	9	8	1	9	40	4.60	4.64	215,545	3	2	1	6	12	4.21	6.03
Locust Mountain Coal Co.,	2					2	5.10	3.09	323,749				1	1	3.46	4.63
Lytle Coal Co.,		1			1	2	5.26	5.12	195,198						3.18	5.12
Markle Co., G. B.,					4	4	3.53	2.86	349,198	1				1	2.61	3.58
Maryd Coal Co.,					1	1	4.39	4.02	249,026						2.72	4.02
Midvalley Coal Co.,		1				1	4.55	3.78	264,233						2.48	3.78
Mill Creek Coal Co.,	1				2	3	8.62	9.07	110,282						5.12	9.07
Moffat, W. Y.,	1					1	12.82	22.06	45,321						11.76	22.06
Mount Jessup Coal Co., Limited,	4	1			1	6	8.31	12.14	82,361						6.51	12.14
Mount Lookout Coal Co.,	1				1	2	6.15	8.44	118,460						4.39	8.44
Oak Hill Coal Co.,	1	1				2	11.63	11.14	89,741						6.80	11.14
Pardee Brothers and Co., Inc.,	2					2	2.75	2.67	574,541						1.97	2.67
Pennsylvania Coal Co.,	20	4	4		6	34	4.11	6.78	147,387	1	1			2	3.29	7.18
Philadelphia and Reading Coal and Iron Co.,	25	10	10	1	15	61	3.73	4.31	232,173	10	5		2	17	3.06	5.51
Pine Hill Coal Co., Inc.,			2			2	5.13	7.20	138,933				1	1	5.18	10.80
Pittston Coal Mining Co.,													1	1	3.57	6.15
Port Carbon Coal Co.,											1			1	10.53	16.02
Price-Pancoast Coal Co.,		1	1			2	4.11	5.15	194,058						2.92	5.15
Quinn Coal Co.,	1					1	9.26	6.11	163,688		1			1	11.98	12.22
Racket Brook Coal Co.,					1	1	4.15	6.29	158,889	1				1	6.04	12.59
Raub Coal Co.,					1	1	5.46	10.20	97,999						3.94	10.20
Red Ash Coal Co.,										1				1	3.45	8.32
Scranton Anthracite Coal Co.,	1	1				2	10.10	19.85	50,388						8.66	19.85
Scranton Coal Co.,	5				3	8	3.16	4.82	207,291	1				1	2.51	5.43
Shipman Koal Co.,		1				1	4.65	6.94	144,048				1	1	6.06	13.88
Spencer Coal Co.,		1				1	7.14	14.33	69,767						5.88	14.33
Suffolk Coal Co.,					1	1	2.57	3.93	254,600						2.04	3.93
Susquehanna Collieries Co.,	11	7	4		9	31	5.36	6.36	157,125	2	3			5	4.22	7.39
Temple Coal Co.,	5			1	2	8	7.58	8.45	118,356		1			1	5.73	9.51
Thomas Colliery Co.,					1	1	5.10	5.13	194,797				1	1	5.67	10.27
Traders Coal Co.,		1				1	3.70	5.80	172,546				1	1	5.56	11.59
Trevorton Colliery Co.,	1	2				3	14.29	19.35	51,691						10.91	19.35
Upper Lehigh Coal Co.,	1					1	5.68	4.80	208,324						3.24	4.80
Van Wickle Estate, A. S.,	1					1	5.35	5.04	198,411						2.65	5.04
Von Storch Collieries Co.,	2				1	3	5.40	6.10	163,818				1	1	5.24	8.14
Wentz Co., J. S.,													1	1	5.26	8.42
West End Coal Co.,	1	1			1	3	4.39	4.94	202,361						3.10	4.94
Wilkes-Barre Colliery Co.,	1			1	1	3	10.60	18.80	53,186						8.45	18.80
Wolf Collieries Co., Inc.,												1		1	13.33	24.85

TABLE 10—Causes of fatalities inside, fatalities inside per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, fatalities outside, fatalities outside per 1,000 employes, by districts, 1919

Districts	Causes of fatalities inside										Employes inside	Fatalities inside per 1,000 employes	Fatalities outside	Employes outside	Fatalities outside per 1,000 employes	Fatalities inside and outside per 1,000 employes	Production (net tons)	Production per fatality inside	Fatalities inside per 1,000,000 tons produced
	Falls	Cars	Gas (including explosions, burnings, suffocations)	Explosives	Blasts	Electricity	Falling into shafts and slopes	Machinery	Miscellaneous	Totals									
1,	12	3			3					18	3,479	5.17	5	1,502	3.33	4.62	2,801,448	155,636	6.42
2,	15	1			1				4	21	4,447	4.72	1	1,644	.61	3.61	3,519,289	167,585	5.97
3,	7	3	1		4		1			16	4,052	3.95	1	1,355	.74	3.14	3,115,174	194,698	5.14
4,	4	6			1		1		1	13	3,761	3.46	1	1,076	.93	2.89	2,106,072	162,006	6.17
5,	13	1			4				3	21	4,707	4.46	1	1,243	.80	3.70	2,944,016	140,191	7.13
6,	6	8			5					19	5,231	3.63	2	1,763	1.13	3.00	4,122,863	216,993	4.61
7,	9	4			3				1	17	4,437	3.83	1	1,280	.78	3.15	2,856,704	168,041	5.95
8,	12	2	1		2			1	2	20	6,960	2.87	3	2,249	1.33	2.50	4,502,573	225,129	4.44
9,	9	1			2					12	3,588	3.34	2	1,406	1.42	2.80	2,884,400	240,367	4.16
10,	8	2	5		6					21	4,494	4.67	1	1,236	.81	3.84	3,308,823	157,563	6.35
11,	16	3	1	92	1				1	114	4,572	24.93	2	1,513	1.32	19.06	3,646,672	31,988	31.26
12,	12	1	1		2				1	17	5,001	3.40	4	1,513	2.64	3.22	4,082,693	240,158	4.16
13,	9	11	1		4	1	1		1	28	5,130	5.46	1	1,440	.69	4.41	4,437,638	158,487	6.31
14,	9	3	7		1	2	1		1	24	5,321	4.51	1	2,142	.47	3.35	4,517,804	188,242	5.31
15,	10	4								14	4,287	3.27	4	2,545	1.57	2.63	5,009,943	357,853	2.79
16,	10	3			1					14	3,214	4.36	4	2,501	1.60	3.15	3,398,786	242,770	4.12
17,	4	2	11				1		5	23	4,061		5	2,[illegible]3	2.21	4.43	4,258,922	185,171	2.[illegible]0
18,	3	3	3		3					15	3,969	3.78	3	2,313	1.30	2.87	3,804,515	253,634	3.94
19,	5	2			1	1			3	12	3,143	3.82	5	1,926	2.60	3.55	2,647,053	220,588	4.53
20,	14		4		2		3		1	24	4,001	6.00	3	2,049	1.46	4.46	3,327,783	138,658	7.21
21,	12	4	1		1		1		3	22	4,285	5.13	7	2,815	2.49	4.08	4,118,830	187,220	5.34
22,	5	2	4		3		1		6	21	4,985	4.21	4	2,844	1.41	3.19	4,282,899	203,948	4.90
23,	8	2	3		1				2	16	3,689	4.34	5	1,881	2.66	3.77	2,981,215	186,326	5.37
24,	8	1	2		3		1		2	17	3,525	4.82	6	1,693	3.54	4.41	3,090,885	181,817	5.50
25,	8	2	4		2		2		3	21	3,602	5.83	4	1,647	2.43	4.76	2,071,024	98,620	10.14
Totals,	228	74	49	92	56	4	13	1	43	560	107,941	5.19	76	45,839	1.66	4.14	87,838,024	156,854	6.38

TABLE 10—Causes of fatalities inside, fatalities inside per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, fatalities outside, fatalities outside per 1,000 employes, by districts, 1920

Districts	Causes of fatalities inside										Employes inside	Fatalities inside per 1,000 employes	Fatalities outside	Employes outside	Fatalities outside per 1,000 employes	Fatalities inside and outside per 1,000 employes	Production (net tons)	Production per fatality inside	Fatalities inside per 1,000,000 tons produced
	Falls	Cars	Gas (including explosions, burnings, suffocations)	Explosives	Blasts	Electricity	Falling into shaft and slopes	Machinery	Miscellaneous	Totals									
1,	8	2	------	------	3	------	------	------	2	15	3,372	4.45	1	1,517	.66	3.27	3,095,816	206,388	4.85
2,	10	1	------	------	3	------	------	------	------	14	4,154	3.37	3	1,710	1.75	2.90	3,745,393	267,528	3.74
3,	11	1	1	------	4	------	3	------	3	23	4,313	5.33	6	1,364	4.40	5.11	3,254,751	141,511	7.07
4,	3	1	1	------	2	------	------	------	------	7	2,886	2.43	1	1,071	.93	2.02	2,136,202	305,172	3.28
5,	11	2	3	------	5	------	------	------	1	22	3,628	6.06	2	1,227	1.63	4.94	2,636,189	119,827	8.35
6,	9	2	------	1	1	------	------	1	------	14	4,839	2.89	2	1,696	1.17	2.45	4,037,712	288,408	3.47
7,	8	------	------	------	2	------	------	------	------	10	4,328	2.31	3	1,229	2.44	2.34	2,879,071	287,907	3.47
8,	18	3	4	------	2	------	1	------	1	29	6,720	4.32	2	2,023	.99	3.55	3,618,007	124,759	8.02
9,	5	1	------	------	2	2	------	------	2	12	3,586	3.35	4	1,535	2.61	3.10	3,009,626	250,802	3.99
10,	3	2	1	------	1	1	------	------	1	9	4,358	2.07	6	1,307	4.59	2.65	3,559,585	395,509	2.53
11,	11	3	------	------	4	------	------	------	2	20	4,247	4.71	3	1,517	1.98	3.99	3,350,992	167,550	5.97
12,	9	3	------	------	1	------	1	------	------	14	4,927	2.84	4	1,565	2.56	2.77	4,379,371	312,812	3.20
13,	8	2	4	------	3	------	------	------	------	17	5,219	3.26	3	1,535	1.95	2.96	4,719,309	277,606	3.60
14,	11	5	3	------	3	1	------	------	2	25	5,347	4.67	5	2,082	2.40	4.04	4,769,255	190,770	5.24
15,	8	------	1	1	2	------	------	------	3	15	4,085	3.67	4	2,345	1.71	2.95	4,460,452	297,363	3.36
16,	10	1	1	------	------	------	------	------	1	13	3,228	4.03	3	2,543	1.18	2.77	3,586,377	275,875	3.62
17,	2	2	5	------	3	------	1	------	2	15	4,064	3.69	3	1,986	1.51	2.98	4,276,040	285,069	3.51
18,	5	4	2	------	2	------	6	------	2	21	4,103	5.12	4	2,624	1.52	3.72	4,278,472	203,737	4.91
19,	4	2	4	------	------	------	------	------	2	12	2,635	4.55	5	1,811	2.76	3.82	2,746,339	228,862	4.37
20,	10	3	2	------	2	------	------	------	1	18	3,839	4.69	5	2,049	2.49	3.91	3,479,850	193,325	5.17
21,	3	4	3	------	1	------	------	------	3	14	4,121	3.40	5	2,789	1.79	2.75	4,443,354	317,382	3.15
22,	6	3	3	------	------	1	4	------	2	19	4,641	4.09	5	2,980	1.68	3.15	4,777,400	251,442	3.98
23,	4	4	------	------	1	------	3	------	3	15	3,706	4.05	3	1,733	1.73	3.31	2,927,157	195,144	5.12
24,	6	6	3	------	1	------	1	------	1	18	3,597	5.00	3	1,731	1.73	3.94	2,811,385	156,188	6.40
25,	7	------	3	1	------	------	1	------	------	12	3,485	3.44	2	1,720	1.16	2.69	2,657,931	221,493	4.51
Totals,	190	57	44	3	48	5	21	1	34	403	103,428	3.90	87	45,689	1.90	3.29	89,636,036	222,422	4.50

TABLE 11—Causes of fatalities inside, fatalities inside per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, fatalities outside, fatalities outside per 1,000 employes, by counties, 1919

Counties	Causes of fatalities inside						Production (net tons)	Employes inside	Fatalities inside per 1000 employes	Production per fatality inside	Fatalities inside per 1,000,000 tons produced	Fatalities outside	Employes outside	Fatalities outside per 1,000 employes	Fatalities inside and outside per 1,000 employes
	Falls	Cars	Gas (including explosions, burnings, suffocations)	Electricity	Miscellaneous	Totals									
Carbon,	3	1	11	--------	--------	15	3,480,567	3,141	4.78	267,736	4.31	3	1,877	1.60	3.59
Columbia,	2	1	2	--------	2	7	1,271,951	1,299	5.39	181,707	5.50	--------	777	--------	3.37
Dauphin,	4	--------	--------	--------	3	7	847,492	1,156	6.05	121,070	8.26	1	615	1.63	4.52
Lackawanna,	56	22	1	--------	30	109	19,631,894	27,481	3.97	180,109	5.55	10	8,896	1.12	3.27
Luzerne,	93	33	16	3	121	266	24,577,321	41,806	6.36	129,990	7.69	21	15,729	1.34	4.99
Northumberland,	18	3	7	--------	12	40	7,168,999	8,599	4.65	179,225	5.58	13	4,168	3.12	4.15
Schuylkill,	45	13	12	1	36	107	19,590,611	22,780	4.69	183,090	5.46	26	13,219	1.97	3.69
Sullivan,	2	--------	--------	--------	--------	2	487,639	593	3.37	243,819	4.10	--------	236	--------	2.41
Susquehanna,	3	1	--------	--------	--------	4	706,918	1,000	4.00	176,729	5.66	2	294	6.80	4.64
Wayne,	2	--------	--------	--------	1	3	74,632	80	34.88	24,877	4.20	--------	28	--------	26.32
Totals,	228	74	49	4	205	560	87,838,024	107,941	5.19	156,854	6.38	76	45,839	1.66	4.14

TABLE 11—Causes of fatalities inside, fatalities per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, fatalities outside, fatalities outside per 1,000 employes, by counties, 1920

Counties	Causes of fatalities inside						Production (net tons)	Employes inside	Fatalities inside per 1000 employes	Production per fatality inside	Fatalities inside per 1,000,000 tons produced	Fatalities outside	Employes outside	Fatalities outside per 1,000 employes	Fatalities inside and outside per 1,000 employes
	Falls	Cars	Gas (including explosions, burnings, suffocations)	Electricity	Miscellaneous	Totals									
Carbon,	2	-----	3	-------	4	9	3,466,847	3,154	2.85	385,205	2.60	3	1,981	1.51	2.34
Columbia,	-----	1	-------	-------	-------	1	1,564,881	1,254	.80	1,564,881	.64	1	877	1.14	.94
Dauphin,	3	-----	3	-------	-------	6	895,837	1,170	5.13	149,306	6.70	-------	579	-------	3.43
Lackawanna,	53	8	5	-------	30	96	20,023,567	25,318	3.79	208,579	4.79	16	8,737	1.83	3.29
Luzerne,	81	20	13	4	33	151	34,243,592	40,912	3.69	226,779	4.41	34	15,601	2.18	3.27
Northumberland,	12	11	3	-------	11	37	6,834,467	8,560	4.32	184,715	5.41	8	4,038	1.98	3.57
Schuylkill,	36	16	17	1	29	99	21,383,867	21,741	4.55	215,999	4.63	25	13,207	1.89	3.55
Sullivan,	1	1	-------	-------	-------	2	531,360	554	3.61	265,680	3.76	-------	258	-------	2.46
Susquehanna,	2	-----	-------	-------	-------	2	470,164	660	3.03	235,082	4.25	-------	212	-------	2.29
Wayne,	-----	-----	-------	-------	-------	-------	221,454	105	-------	-------	-------	-------	199	-------	-------
Totals,	190	57	44	5	107	403	89,636,036	103,428	3.90	222,422	4.50	87	45,689	1.90	3.29

TABLE 12—Causes of non-fatal accidents, and number attributable to each cause, by districts, 1919

Causes	Districts 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals	Percentages
Inside																											
Falls of coal, slate and roof,	18	12	18	12	28	20	14	10	15	9	19	24	10	12	9	11	9	7	23	10	15	6	9	29	21	370	31.22
Mine cars,	13	7	19	9	27	13	13	7	8	11	19	12	13	9	5	6	9	7	10	5	15	12	3	14	12	278	23.46
Explosions of gas,	----	----	3	1	1	2	----	5	----	----	3	4	1	1	----	1	11	17	18	3	8	4	7	9	9	108	9.11
Explosions of powder and dynamite,	1	2	----	1	1	2	----	1	1	----	30	----	----	----	----	1	2	----	----	----	----	1	----	2	----	45	3.80
Blasts, premature and otherwise,	1	2	6	1	10	7	----	----	4	5	2	1	4	2	----	2	2	3	1	2	3	4	1	3	2	68	5.74
Falling into shafts and slopes,	1	----	----	----	----	1	----	----	----	----	1	----	1	----	----	----	3	----	4	7	----	1	----	1	4	24	2.03
Crushed at batteries,	----	----	----	----	----	----	----	----	----	----	----	----	----	1	1	----	----	----	----	----	----	----	----	----	----	2	.17
Animals,	----	----	1	----	----	1	----	1	----	1	----	1	----	----	1	1	----	----	1	1	2	----	----	1	4	16	1.35
Machinery,	----	----	1	2	3	2	2	----	----	----	----	----	----	1	1	----	1	----	----	----	3	----	----	----	2	18	1.52
Miscellaneous,	9	2	12	3	23	10	7	7	4	6	17	14	6	1	10	10	20	8	20	6	28	3	2	8	20	256	21.60
Totals,	43	25	60	29	93	58	36	21	22	32	91	56	25	27	27	32	57	42	77	34	74	31	22	67	74	1,185	100.00
Outside																											
Cars,	2	1	4	1	1	2	1	1	----	3	1	6	1	4	9	3	9	3	8	1	4	4	2	1	15	87	33.46
Machinery,	1	----	----	3	1	3	1	1	2	1	----	2	1	1	1	1	----	2	6	3	6	2	1	1	3	43	16.54
Electricity,	----	----	----	----	----	----	----	----	----	----	----	1	1	----	----	----	----	----	----	----	----	----	----	----	----	2	.77
Miscellaneous,	2	8	2	8	8	4	1	2	3	2	3	11	6	----	3	5	9	5	8	4	4	4	6	8	12	128	49.23
Totals,	5	9	6	12	10	9	3	4	5	6	4	20	9	5	13	9	18	10	22	8	14	10	9	10	30	260	100.00
Grand totals inside and outside,	48	34	66	41	103	67	39	35	37	38	95	76	44	32	40	41	75	52	99	42	88	41	31	77	104	1,445	

TABLE 12—Causes of non-fatal accidents, and number attributable to each cause, by districts, 1920

Causes	Districts 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals	Percentages
Inside																											
Falls of coal, slate and roof,	15	14	16	13	17	17	14	14	21	9	16	14	8	14	10	7	13	14	6	20	20	12	18	22	11	355	31.03
Mine cars,	9	11	6	19	8	8	7	10	12	9	15	9	9	7	6	5	13	6	6	8	19	17	5	5	12	241	21.07
Explosions of gas,	----	2	----	----	----	2	1	----	2	3	8	1	4	1	----	----	19	14	15	4	13	5	3	10	11	118	10.31
Explosions of powder and dynamite,	----	----	----	----	2	----	1	----	----	1	1	----	----	----	1	----	----	----	----	----	----	1	----	----	2	9	.79
Blasts, premature and otherwise,	2	6	2	4	3	10	1	2	5	5	2	3	2	4	4	----	1	1	----	1	2	7	1	1	----	69	6.03
Falling into shafts and slopes,	----	----	----	----	1	----	----	----	----	----	----	----	----	----	1	1	----	3	----	----	----	----	1	1	1	9	.79
Crushed at batteries,	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	1	.09
Animals,	----	----	1	----	----	4	----	----	1	1	2	----	----	1	1	----	----	1	1	1	1	4	1	----	1	21	1.83
Machinery,	1	1	----	----	1	1	----	----	2	----	----	----	----	----	----	----	----	1	1	----	----	----	----	1	----	9	.79
Electricity,	1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2	.17
Miscellaneous,	5	6	9	5	11	6	9	2	6	5	19	9	7	7	11	7	18	7	16	17	40	46	10	20	12	310	27.10
Totals,	33	41	34	41	43	48	33	28	49	33	63	36	30	34	34	20	65	47	45	51	95	92	39	60	50	1,144	100.00
Outside																											
Cars,	5	2	2	----	2	2	2	2	4	2	3	1	----	2	5	1	5	6	9	3	1	9	4	4	4	80	28.17
Machinery,	2	4	2	----	2	3	----	1	----	----	----	1	1	----	1	1	1	6	1	4	4	----	1	2	3	40	14.08
Miscellaneous,	4	5	8	3	3	7	4	5	4	1	4	3	3	1	4	5	15	7	13	7	10	20	7	11	10	164	57.75
Totals,	11	11	12	3	7	12	6	8	8	3	7	5	4	3	10	7	21	19	23	14	15	29	12	17	17	284	100.00
Grand totals inside and outside,	44	52	46	44	50	60	39	36	57	36	70	41	34	37	44	27	86	66	68	65	110	121	51	77	67	1,428	

TABLE 13—Number of minors employed, number killed, by districts, 1919

Districts	Fatalities inside among minors (16-20 years)						Minors employed inside (16-20)	Fatalities inside per 1000 minors employed	Fatalities outside among minors (14-20 years)						Fatalities inside and outside among minors	Minors employed outside (14-20)	Minors employed inside and outside	Fatalities outside per 1000 minors employed	Fatalities inside and outside per 1000 minors employed
	16	17	18	19	20	Totals			16	17	18	19	20	Totals					
1,			1			1	321	3.12					1	1	2	299	620	3.34	3.23
2,			2	1		3	522	5.75	1					1	4	306	888	2.73	4.50
3,			1			1	280	3.57							1	407	687		1.46
4,		2		1		3	273	10.99							3	201	474		6.33
5,	1					1	238	4.20							1	341	579		1.72
6,		2	3	1		6	315	19.05							6	407	722		8.31
7,	2	1	1			4	261	15.33							4	359	620		6.45
8,		2		1		3	441	6.80			1			1	4	601	1,042	1.66	3.84
9,							267				1			1	1	219	486	4.57	2.06
10,		1	1			2	402	4.98							2	269	671		2.98
11,		2	3	4	1	10	369	27.10							10	194	563		17.76
12,					1	1	496	2.02							1	239	735		1.36
13,			1	1		2	412	4.85				1		1	3	267	679	3.75	4.42
14,				2	2	4	399	10.03			1			1	5	445	844	2.25	5.92
15,	1				1	2	317	6.31				1		1	3	630	947	1.59	3.17
16,				1		1	239	4.18		1				1	2	546	785	1.83	2.55
17,							337					1		1	1	366	703	2.73	1.42
18,							260		1	1			1	3	3	548	808	5.47	3.71
19,							134									414	548		
20,							378									651	1,009		
21,		1	1			2	269	7.43	2		1			3	5	668	937	4.49	5.34
22,					1	1	380	2.63		1				1	2	749	1,129	1.34	1.77
23,							291		1		1	1		3	3	603	894	4.98	3.36
24,			1			1	227	4.41			1			1	2	456	683	2.19	2.93
25,		1	2			3	369	8.13	1	1	1			3	6	467	836	6.42	7.18
Totals,	4	12	17	12	6	51	8,177	6.24	6	4	7	4	2	23	74	10,712	18,889	2.15	3.92

TABLE 13—Number of minors employed, number killed, by districts, 1920

Districts	Fatalities inside among minors (16-20 years)					Minors employed inside (16-20)	Fatalities inside per 1000 minors employed	Fatalities outside among minors (14-20 years)						Fatalities inside and outside among minors	Minors employed outside (14-20)	Minors employed inside and outside	Fatalities outside per 1000 minors employed	Fatalities inside and outside per 1000 minors employed
	17	18	19	20	Totals			16	17	18	19	20	Totals					
1,	1	1			2	214	9.35			1			1	3	200	414	5.00	7.25
2,			1		1	508	19.69		1		1		2	3	350	858	5.71	3.50
3,						289						1	1	1	205	494	4.88	2.02
4,						227		1					1	1	175	402	5.71	2.49
5,		1			1	154	6.49							1	221	375		2.67
6,						303									316	619		
7,						276			1				1	1	333	609	3.00	1.64
8,	2	1		1	4	421	9.50			1	1		2	6	352	773	5.68	7.76
9,	1				1	320	3.13							1	336	656		1.52
10,						300		1	1			1	3	3	253	553	11.86	5.42
11,		1			1	333	3.00				1		1	2	195	528	5.13	3.79
12,	1			1	2	540	3.70							2	231	771		2.59
13,	1				1	445	2.25		1	1			2	3	227	672	8.81	4.46
14,	1		1	1	3	499	6.01		3		1		4	7	280	779	14.29	8.99
15,						286						1	1	1	506	792	1.98	1.26
16,			1	1	2	239	8.37				1		1	3	429	668	2.33	4.49
17,						168									391	559		
18,						216		1		2			3	3	644	860	4.66	3.49
19,			1		1	133	7.52		1				1	2	428	561	2.34	3.57
20,				2	2	347	5.76			1			1	3	668	1,015	1.50	2.96
21,						288									727	1,015		
22,		2			2	342	5.85		1		1		2	4	768	1,110	2.60	3.60
23,	1				1	290	3.45			1			1	2	539	829	1.86	2.41
24,		1	1	1	3	255	11.76							3	481	736		4.08
25,		1		1	2	380	5.26		1				1	3	398	778	2.51	3.86
Totals,	8	8	5	8	29	7,773	3.73	3	10	7	6	3	29	58	9,653	17,426	3.00	3.33

TABLE 14.—Nationality of employes, number killed, 1919-1920

Nationality	1919							1920						
	Employes			Fatalities				Employes			Fatalities			
	Inside	Outside	Total	Falls	Total inside	Total outside	Total inside and outside	Inside	Outside	Total	Falls	Total inside	Total outside	Total inside and outside
American,	37,760	28,312	66,072	42	157	49	206	36,300	29,109	65,409	29	105	52	157
Austrian,	7,006	3,168	10,174	22	54	8	62	6,791	2,494	9,285	6	15	1	16
Belgian,	251	133	384					13	47	60				
Bohemian,	43	19	62	2	2		2	45	10	55		1		1
Bulgarian,								1		1				
Canadian,	6	9	15					25	8	33				
Croatian,	21	4	25					44		44				
Danish,	7	7	14					14	6	20				
Dutch,	2		2											
English,	1,943	698	2,641	5	10	1	11	1,941	640	2,581	1	6	1	7
Finish,								4		4				
French,	38	12	50					57	23	80				
German,	860	529	1,389	2	3	1	4	952	500	1,452	2	3	1	4
Greek,	569	338	907		1	1	2	574	263	837	3	3		3
Horwat,	123	25	148					54	23	77				
Hungarian,	1,115	589	1,704	4	5		5	1,269	573	1,842				
Irish,	2,590	904	3,494	5	14	1	15	2,419	970	3,389	3	7	1	8
Italian,	8,258	3,137	11,395	17	28	4	32	8,026	2,767	10,793	24	34	7	41
Jewish,	1	1	2					1	2	3				
Lithuanian,	11,298	665	11,963	32	61	2	63	10,041	821	10,862	33	64	1	65
Magyar,	8		8		1		1	10		10	1	2		2
Mexican,	9	1	10					10		10				
Montenegrin,	13	1	14					36	15	51				

Norwegian,	1		1					2		2				
Polish,	20,922	2,573	23,495	55	139	4	143	19,641	3,100	22,741	58	106	10	116
Russian,	6,097	1,350	7,447	20	42	1	43	5,980	1,311	7,291	16	23	4	27
Roumanian,								2		2				
Scotch,	250	104	354	1	1			320	126	446	1	1		1
Servian,	11		11					5		5				
Slavonian,	5,387	2,477	7,864	15	28	4	32	5,900	2,293	8,193	11	24	8	32
Spanish,	6		6					56	4	60				
Swedish,	75	20	95					163	42	205		1		1
Swiss,	10	19	29					6	5	11				
Syrian,	40	25	65					23	18	41				
Turkish,									1	1				
Tyrolean,	381	71	452	1	2		2	357	41	298				
Ukranian,	70	117	187											
Welsh,	2,770	531	3,301	5	12		12	2,346	477	2,823	2	8	1	9
Totals,	107,941	45,839	153,780	228	560	76	636	103,428	45,689	149,117	190	403	87	490

TABLE 15.—Nationality of employes killed, 1900-1920

Nationality	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	Totals
American,	92	135	80	128	135	139	136	125	130	113	114	140	121	120	100	110	135	159	163	206	157	2,738
Austrian,	7	8	8	25	21	22	15	22	16	16	8	22	19	19	29	34	35	41	40	62	16	485
Bohemian,							1				2	2	1			1				2	1	10
Bulgarian,																1						1
Canadian,					1	1																2
Croatian,															1							1
English,	20	22	14	17	23	18	9	14	24	17	14	26	9	9	13	15	15	6	9	11	7	312
French,	1	2											1	1								5
German,	21	16	15	26	18	22	17	24	13	14	12	14	12	11	9	19	5	9	5	4	4	290
Greek,	2		2	1	1	5	1	5	3	2	2	6	9	5	10	9	3	3	2	2	3	76
Hebrew,												2					1					3
Horwat,												2		2	3				1			8
Hungarian,	18	27	14	19	25	18	21	24	20	14	10	9	4	10	9	6	8	3	8	5		272
Irish,	43	58	28	50	38	38	17	45	35	25	37	28	19	31	14	22	7	13	9	15	8	589
Italian,	24	25	12	33	35	37	41	63	49	36	57	50	58	53	51	48	56	46	48	32	41	895
Lithuanian,	17	22	17	17	40	56	46	74	67	59	75	83	82	89	67	65	62	71	62	63	65	1,199
Magyar,												5		1	1	1			1	1	2	12
Montenegrin,								1	1													2
Polish,	104	139	64	125	166	175	160	205	213	175	173	184	166	150	178	141	145	129	126	143	116	3,177
Russian,	14	7	12	13	23	33	25	31	35	27	32	43	27	42	41	51	51	41	41	43	27	659
Scotch,	4	2	2	2	3	3	1	4	1		3		3	2		1	3		1	1	1	37
Slavonian,	19	25	16	27	38	45	34	39	46	51	30	61	49	58	55	47	29	42	23	32	32	798
Swedish,				2	2		1		1	2	1	1	1	3	1						1	16
Swiss,																		1	1			2
Syrian,				1								1			1			2				5
Tyrolean,	2	1	1	2		5	5	2	2	1	3	1	2	2	2	1	1	1	2	2		38
Welsh,	23	24	15	30	26	27	27	30	22	15	28	19	18	16	15	16	9	14	14	12	9	409
Totals,	411	513	300	518	595	644	557	708	678	567	601	699	601	624	600	588	565	581	556	636	490	12,032

TABLE 16.—Classification of employes killed inside and outside, 1899-1920

Occupations	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	Totals
Inside																							
Mine foremen and assistants,	2	----	5	2	3	3	1	2	2	3	1	2	2	1	3	2	5	5	1	1	6	5	57
Fire bosses and assistants,	2	5	2	3	2	1	2	6	2	3	2	2	5	1	8	4	1	3	3	1	3	1	62
Miners,	199	184	224	114	202	233	308	226	309	313	264	254	306	262	286	296	281	274	297	263	323	238	5,656
Miners' laborers,	114	95	122	62	110	145	148	133	136	154	126	147	176	117	148	126	143	109	98	75	92	75	2,651
Drivers and runners,	39	33	45	27	46	31	31	32	46	49	37	40	45	42	33	28	40	30	15	16	39	23	767
Doorboys, etc.,	18	8	6	5	12	20	14	9	18	18	11	6	15	8	7	8	10	10	2	11	11	7	234
All other employes,	15	33	37	32	51	63	47	48	88	56	49	58	66	67	72	70	47	65	65	88	86	54	1,256
Totals,	389	358	441	245	426	496	551	456	601	596	490	509	615	498	557	534	527	497	479	465	560	403	10,683
Outside																							
Foremen,	1	----	----	----	1	1	----	2	----	2	1	------	4	1	3	1	2	------	2	1	1	------	23
Blacksmiths and carpenters,	2	2	----	2	4	5	5	5	1	5	4	6	7	3	1	5	3	2	5	5	2	8	82
Engineers and firemen,	6	2	5	7	6	3	6	3	8	4	7	4	2	7	1	5	6	4	5	6	9	5	111
Slatepickers,	10	9	9	12	9	11	24	14	16	14	7	8	8	9	3	2	5	4	6	10	4	8	198
All other employes,	53	40	58	31	72	79	58	77	82	57	58	74	63	87	59	53	45	58	81	79	60	66	1,396
Totals,	72	53	72	55	92	99	93	101	107	82	77	92	84	103	67	66	61	68	102	101	76	87	1,810
Grand totals inside and outside,	461	411	513	300	518	595	644	557	708	678	567	601	699	601	624	600	588	565	581	556	636	490	12,493

TABLE 17.—Miners and miners' laborers employed, fatalities per 1000 employed, average number of days worked, average production per day, 1882-1920.

Years	Miners employed	Miners killed	Miners killed per 1,000 employed	Miners' laborers employed	Miners' laborers killed	Miners' laborers killed per 1,000 employed	Average number of days worked by breakers	Average production per day including washery production (net tons)
1882,	22,843	135	5.91	15,229	56	3.68	218	160,814
1883,	25,319	136	5.37	16,879	67	3.97	232	162,704
1884,	27,100	132	4.87	19,606	81	4.13	192	189,941
1885,	28,305	160	5.65	20,128	86	4.27	204	187,413
1886,	25,970	131	5.04	17,068	68	3.98	196	198,728
1887,	29,558	102	3.45	17,548	57	3.25	208	202,675
1888,	34,547	169	4.89	21,952	87	3.96	218	213,922
1889,	30,504	194	6.36	19,368	79	4.08	197	221,978
1890,	28,936	146	5.05	18,620	95	5.10	210	214,220
1891,	30,552	180	5.89	19,590	119	6.07	213	233,340
1892,	30,779	180	5.84	22,110	111	5.02	202	253,599
1893,	32,881	195	5.93	22,853	108	4.73	202	261,590
1894,	33,357	218	6.54	23,942	91	3.80	175	291,240
1895,	34,553	179	5.18	24,638	115	4.67	187	304,539
1896,	37,003	204	5.51	26,530	134	5.09	170	316,725
1897,	36,932	210	5.69	27,277	99	3.63	151	348,219
1898,	36,377	176	4.84	24,060	124	5.15	151	349,753
1899,	36,421	199	5.46	23,946	114	4.75	179	338,091
1900,	36,832	184	4.99	24,613	95	3.86	176	325,928
1901,	37,804	224	5.92	26,265	122	4.64	195	344,075
1902,	36,392	114	3.13	25,443	62	2.44	116*	356,387
1903,	36,823	204	5.54	27,533	110	4.00	211	356,552
1904,	39,848	233	5.85	31,217	145	4.64	213	345,513
1905,	42,078	308	7.32	31,967	148	4.63	208	378,111
1906,	41,801	226	5.41	29,652	133	4.48	206	350,192
1907,	43,035	309	7.18	29,984	136	4.54	227	379,103
1908,	44,340	313	7.05	32,853	154	4.68	211	345,940
1909,	44,675	264	5.91	32,232	126	3.91	205	391,336
1910,	43,651	254	5.82	32,040	147	4.59	212	394,736
1911,	45,324	306	6.75	32,905	176	5.35	234	388,535
1912,	44,696	262	5.86	33,438	117	3.50	220	383,758
1913,	44,346	286	6.45	33,973	148	4.36	242	378,624
1914,	45,897	296	6.45	37,030	126	3.40	229	398,208
1915,	46,422	281	6.05	36,379	143	3.93	221	404,424
1916,	43,706	269	6.15	27,751	112	4.04	246	356,424
1917,	45,355	297	6.55	23,591	98	4.15	270	372,020
1918,	43,815	263	6.00	17,174	75	4.37	283	351,399
1919,	45,019	323	7.17	19,207	92	4.78	252	354,185
1920,	42,914	238	5.55	16,588	75	4.52	265	335,715

*Strike during the year.

TABLE 18.—Production, employes inside and outside, fatalities inside, fatalities inside per 1000 employes, production per fatality inside, by counties, 1899-1920

Years	Counties	Employes inside	Employes outside	Production (net tons)	Fatalities by falls	Fatalities by explosions of gas	Total fatalities inside	Production per fatality inside	Fatalities inside per 1,000 employes
1899	Carbon,	1,974	2,019	1,826,267	2	-------	10	182,627	5.07
1900		2,052	2,190	1,863,637	1	-------	3	621,212	1.46
1901		2,265	2,100	1,858,519	3	-------	10	185,852	4.42
1902		2,242	1,563	1,104,462	1	-------	4	276,116	1.78
1903		2,120	1,931	2,150,021	2	-------	13	165,386	6.13
1904		2,381	2,086	2,253,512	2	-------	7	321,930	2.94
1905		2,460	1,780	2,476,406	-------	-------	9	275,156	3.66
1906		2,740	1,729	2,246,823	2	1	6	374,471	2.19
1907		2,989	1,793	2,762,523	3	1	14	197,323	4.68
1908		3,531	1,991	2,784,946	4	-------	9	309,438	2.55
1909		3,492	1,663	2,652,997	3	1	16	165,812	4.58
1910		3,575	1,787	3,214,169	3	1	15	214,278	4.20
1911		3,607	1,616	3,312,483	6	1	18	184,027	4.99
1912		4,083	1,695	2,843,876	1	-------	8	355,484	1.96
1913		3,930	1,759	3,353,277	5	3	15	223,552	3.82
1914		5,769	2,252	3,186,691	3	7	18	177,038	3.12
1915		4,032	1,762	3,337,156	3	-------	11	303,378	2.73
1916		3,409	1,286	2,966,975	3	-------	7	423,854	2.05
1917		3,565	1,971	3,687,302	3	-------	9	409,700	2.52
1918		2,864	1,994	4,358,801	6	-------	12	363,233	4.19
1919		3,141	1,877	3,480,567	3	10	15	267,736	4.78
1920		3,154	1,981	3,436,847	2	2	9	385,205	2.85
	Totals,	69,375	40,825	61,188,257	61	27	238	257,004	3.43
1899	Columbia,	1,401	901	1,002,469	3	-------	5	200,494	3.57
1900		1,163	870	980,721	3	-------	5	196,144	4.30
1901		1,415	914	1,209,859	2	-------	4	302,465	2.83
1902		1,438	901	738,070	-------	-------	3	246,023	2.09
1903		1,454	782	1,353,904	-------	-------	3	451,301	2.06
1904		1,419	773	1,151,624	7	-------	10	115,162	7.05
1905		1,567	801	1,229,697	2	-------	7	175,671	4.47
1906		1,403	843	969,065	3	1	7	138,438	4.99
1907		1,468	825	1,188,268	1	-------	4	297,067	2.72
1908		1,559	853	1,182,326	2	-------	5	236,465	3.21
1909		1,568	825	1,093,103	1	-------	2	546,551	1.28
1910		1,176	636	960,145	1	-------	1	960,145	.85
1911		1,473	593	1,193,736	1	-------	1	1,193,736	.68
1912		1,440	726	1,214,527	3	-------	6	202,421	4.17
1913		1,393	727	1,214,648	-------	-------	4	303,662	2.87
1914		1,366	694	1,066,471	2	-------	3	355,490	2.20
1915		1,334	661	1,202,465	-------	2	4	300,616	3.00
1916		1,354	644	1,346,874	1	-------	1	1,346,874	.73
1917		1,339	670	1,563,200	3	-------	5	312,640	3.73
1918		1,253	717	1,737,057	1	-------	3	579,019	2.39
1919		1,299	777	1,271,951	2	2	7	181,707	5.39
1920		1,254	877	1,564,881	-------	-------	1	1,564,881	.80
	Totals,	30,536	17,010	26,435,061	38	5	91	290,495	2.98

TABLE 18.—Continued.

Years	Counties	Employes inside	Employes outside	Production (net tons)	Fatalities by falls	Fatalities by explosions of gas	Total fatalities inside	Production per fatality inside	Fatalities inside per 1,000 employes
1899	Dauphin,	1,583	807	817,328	1	-------	8	102,166	5.05
1900		1,608	969	779,135	2	1	8	87,392	4.98
1901		1,562	791	830,572	3	-------	7	118,653	4.48
1902		1,120	825	423,341	-------	-------	1	423,341	.89
1903		1,256	884	732,970	3	-------	5	146,594	3.98
1904		1,269	844	723,415	-------	1	*11	65,765	8.67
1905		1,350	817	723,126	1	1	5	144,625	3.70
1906		1,422	811	734,723	3	-------	3	244,908	2.11
1907		1,393	731	829,980	2	-------	5	165,996	3.59
1908		1,481	813	848,005	1	-------	9	94,223	6.08
1909		1,419	796	932,393	1	-------	2	466,197	1.41
1910		1,446	783	886,192	1	-------	8	110,774	5.53
1911		1,530	750	946,963	4	1	10	94,696	6.54
1912		1,606	741	945,102	-------	1	3	315,034	1.87
1913		1,687	763	1,060,270	2	-------	5	212,054	2.96
1914		1,697	772	1,000,988	2	2	6	166,831	3.54
1915		1,716	770	972,110	2	-------	3	324,037	1.75
1916		1,376	653	986,234	-------	1	5	197,247	3.63
1917		1,199	617	967,704	-------	-------	3	322,568	2.50
1918		1,097	607	899,383	5	-------	6	149,897	5.47
1919		1,156	615	847,492	4	-------	7	121,070	6.05
1920		1,176	579	895,837	3	1	6	149,306	5.10
	Totals,	31,143	16,738	18,783,263	40	9	126	149,074	4.05
1899	Lackawanna,	22,314	8,572	14,838,821	71	2	108	137,397	4.84
1900		23,907	8,904	13,755,961	55	8	89	154,561	3.72
1901		25,760	9,038	17,258,125	63	4	109	158,331	4.23
1902		25,931	9,462	11,851,169	23	-------	43	275,609	1.66
1903		27,755	9,715	20,046,133	58	3	104	192,751	3.75
1904		30,500	10,175	19,148,826	62	7	115	166,512	3.77
1905		30,853	10,066	19,709,164	82	2	129	152,784	4.18
1906		31,196	10,253	18,840,561	70	4	112	168,219	3.59
1907		32,444	10,079	22,433,409	87	16	174	128,928	5.36
1908		32,296	10,122	21,934,923	80	3	141	155,537	4.37
1909		33,764	10,449	20,489,212	73	1	129	158,831	3.82
1910		33,285	9,929	21,182,921	87	3	139	152,395	4.18
1911		34,069	9,922	22,598,414	78	3	218	103,662	6.40
1912		34,074	9,853	20,617,308	79	4	127	162,341	3.73
1913		34,285	9,640	21,836,671	83	4	140	155,976	4.08
1914		34,445	9,679	21,649,788	62	-------	130	166,537	3.77
1915		34,488	9,512	21,697,563	82	3	139	156,098	4.03
1916		31,104	9,048	20,983,978	54	2	102	205,725	3.28
1917		28,857	9,927	23,072,582	78	3	122	189,220	4.23
1918		26,832	9,890	22,732,557	66	5	116	195,970	4.32
1919		27,481	8,896	19,631,894	56	1	109	180,109	3.97
1920		25,318	8,737	20,023,567	53	5	93	208,579	3.79
	Totals,	660,948	211,748	436,333,547	1,502	83	2,691	162,146	4.07

*Williamstown disaster.

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TABLE 18.—Continued.

Years	Counties	Employes inside	Employes outside	Production (net tons)	Fatalities by falls	Fatalities by explosions of gas	Total fatalities inside	Production per fatality inside	Fatalities inside per 1,000 employes
1899	Luzerne,	33,129	17,674	22,287,712	93	16	144	154,776	4.35
1900		34,476	17,539	21,481,122	57	17	135	159,119	3.91
1901		36,019	17,261	23,963,869	95	22	182	131,670	5.05
1902		35,491	17,275	14,577,949	40	7	93	156,752	2.62
1903		38,370	17,269	27,878,362	75	15	169	164,961	4.40
1904		41,603	17,533	27,569,088	106	8	200	137,845	4.81
1905		43,109	17,625	29,992,636	122	14	215	139,501	4.99
1906		41,643	16,798	26,612,192	84	27	194	137,176	4.66
1907		42,022	17,033	30,853,087	105	19	223	138,355	5.31
1908		46,302	16,797	31,426,069	116	34	258	121,806	5.57
1909		45,121	15,379	30,992,306	112	16	202	153,427	4.48
1910		44,383	15,012	32,106,979	96	12	215	149,335	4.84
1911		46,863	16,017	35,061,582	92	18	205	171,032	4.37
1912		47,133	15,995	32,643,232	83	24	202	161,600	4.29
1913		47,943	15,955	36,326,287	107	10	211	172,162	4.40
1914		51,791	16,411	36,973,767	111	18	217	170,386	4.19
1915		50,950	16,131	35,266,086	103	17	215	164,028	4.21
1916		43,280	15,124	32,497,845	88	32	216	150,453	4.99
1917		43,219	15,792	37,580,170	93	13	177	212,317	4.09
1918		40,299	15,958	37,699,338	103	13	186	202,685	4.62
1919		41,806	15,729	34,577,321	93	14	266	129,990	6.36
1920		40,912	15,601	34,243,592	81	13	151	226,779	3.69
	Totals,	935,864	361,908	672,610,591	2,055	379	4,276	157,299	4.57
1899	Northumberland,	9,739	4,958	4,860,292	18	2	23	211,317	2.36
1900		9,741	5,364	4,690,944	15	1	33	142,150	3.39
1901		9,165	5,022	5,430,991	21	1	36	150,861	3.93
1902		9,670	5,193	3,162,066	10	10	34	93,002	3.52
1903		9,312	5,268	5,518,580	21	2	35	157,674	3.76
1904		9,248	5,097	5,516,647	15	6	39	141,452	4.22
1905		9,823	5,385	5,483,181	21	5	42	130,552	4.28
1906		9,585	5,145	5,367,497	17	3	32	167,734	3.34
1907		10,653	5,056	6,665,392	23	5	45	148,120	4.22
1908		10,639	4,942	6,067,741	23	3	49	123,831	4.61
1909		10,361	4,517	5,987,835	25	3	46	130,170	4.44
1910		10,665	4,468	6,324,317	17	------	32	197,635	3.00
1911		10,772	4,376	7,109,372	16	5	39	182,292	3.62
1912		11,002	4,390	6,851,491	22	1	36	190,319	3.27
1913		10,836	4,239	7,012,687	20	2	45	155,837	4.15
1914		11,083	4,237	6,710,131	19	7	55	122,002	4.96
1915		10,768	4,130	6,354,484	23	2	38	167,223	3.53
1916		9,940	4,125	6,299,185	24	6	52	121,138	5.23
1917		8,464	4,208	7,889,237	24	2	38	206,032	4.49
1918		7,862	4,209	7,768,402	23	2	40	194,210	5.09
1919		8,599	4,168	7,168,999	18	6	40	179,225	4.65
1920		8,560	4,038	6,834,467	12	1	37	184,715	4.32
	Totals,	216,487	102,535	135,073,938	427	75	866	155,975	4.00

TABLE 18.—Continued.

Years	Counties	Employes inside	Employes outside	Production (net tons)	Fatalities by falls	Fatalities by explosions of gas	Total fatalities inside	Production per fatality inside	Fatalities inside per 1,000 employes
1899	Schuylkill,	20,474	12,918	13,694,171	37	8	90	152,157	4.40
1900		19,952	13,307	12,998,899	32	11	82	158,523	4.11
1901		20,416	13,491	15,277,658	39	6	93	164,276	4.56
1902		20,876	14,074	8,622,103	37	3	60	143,702	2.87
1903		20,144	13,299	16,389,505	44	6	88	186,244	4.37
1904		22,272	13,707	16,173,158	43	8	107	151,151	4.80
1905		25,716	14,749	17,975,160	60	11	136	132,170	5.29
1906		25,365	14,924	16,376,538	32	7	94	174,218	3.71
1907		25,181	14,691	20,160,970	48	3	123	163,910	4.88
1908		26,625	14,150	18,196,714	54	17	121	150,386	4.54
1909		25,749	13,708	16,794,597	35	7	88	190,848	3.42
1910		25,302	13,351	17,696,013	44	4	94	188,255	3.72
1911		26,015	13,270	19,234,447	53	6	118	163,004	4.54
1912		26,619	13,203	17,986,745	55	5	109	165,016	4.09
1913		26,768	12,901	19,511,483	43	29	134	145,608	5.01
1914		25,898	12,106	19,166,424	29	9	101	189,767	3.90
1915		26,111	12,410	19,078,139	50	9	109	175,029	4.17
1916		23,784	11,626	21,109,730	43	2	109	193,667	4.58
1917		21,995	11,622	23,707,223	55	22	118	200,908	5.36
1918		20,268	12,166	22,689,451	33	8	84	270,113	4.14
1919		22,780	13,219	19,590,611	45	10	107	183,090	4.69
1920		21,741	13,207	21,383,867	36	13	99	215,999	4.55
	Totals,	520,051	292,099	393,813,606	947	204	2,264	173,946	4.35
1899	Sullivan,	322	143	183,182	1	-------	1	183,182	3.11
1900		337	184	235,112	3	-------	3	78,371	8.90
1901		281	153	152,505	-------	-------	-------	-------	-------
1902		523	229	409,017	3	-------	5	81,803	9.56
1903		455	193	293,442	2	-------	2	146,721	4.40
1904		443	222	294,305	1	-------	1	294,305	2.26
1905		331	205	310,496	1	-------	2	155,248	6.04
1906		414	220	358,627	1	-------	2	179,313	4.83
1907		459	260	433,101	1	-------	1	433,101	2.18
1908		583	292	550,713	2	-------	2	275,357	3.43
1909		661	302	641,216	2	-------	2	320,608	3.03
1910		614	306	632,874	-------	-------	1	632,874	1.63
1911		662	330	717,429	2	-------	4	179,357	6.04
1912		677	319	649,235	-------	-------	-------	-------	-------
1913		706	318	664,063	-------	-------	1	664,063	1.42
1914		744	319	643,730	-------	-------	-------	-------	-------
1915		716	337	604,353	3	-------	3	201,451	4.19
1916		682	274	553,308	2	-------	2	276,654	2.93
1917		625	233	598,859	-------	-------	-------	-------	-------
1918		586	259	540,112	1	-------	1	540,112	1.71
1919		593	236	487,639	2	-------	2	243,819	3.37
1920		554	238	531,360	1	-------	2	265,680	3.61
	Totals,	11,968	5,592	10,484,678	28	-------	37	283,370	3.09

TABLE 18.—Continued.

Years	Counties	Employes inside	Employes outside	Production (net tons)	Fatalities by falls	Fatalities by explosions of gas	Total fatalities inside	Production per fatality inside	Fatalities inside per 1,000 employes
1899	Susquehanna,	941	269	699,020	------	------	------	------	------
1900		904	346	556,003	------	------	------	------	------
1901		1,104	305	743,105	------	------	------	------	------
1902		1,086	300	452,758	2	------	2	226,379	1.84
1903		1,064	303	800,773	4	------	6	133,462	5.64
1904		1,102	290	692,440	2	------	6	115,407	5.44
1905		1,026	281	680,146	6	------	6	113,358	5.85
1906		1,028	292	562,103	2	------	6	93,684	5.84
1907		970	305	644,088	9	------	12	53,674	12.37
1908		1,005	297	487,900	2	------	2	243,950	1.99
1909		953	274	589,835	2	------	3	196,612	3.15
1910		971	296	628,808	4	------	4	157,202	4.12
1911		962	351	672,600	------	------	1	672,600	1.04
1912		1,044	347	582,510	3	------	7	83,216	6.70
1913		1,096	324	594,764	1	------	2	297,382	1.83
1914		1,204	335	658,249	3	------	4	164,562	3.32
1915		1,110	285	760,076	1	------	4	190,019	3.60
1916		1,118	282	791,326	3	------	3	263,775	2.68
1917		802	220	652,504	3	------	6	108,751	7.48
1918		902	303	872,036	3	------	3	290,679	3.33
1919		1,000	294	706,918	3	------	4	176,729	4.00
1920		660	212	470,164	2	------	2	235,082	3.03
	Totals,	22,052	6,511	14,298,126	55	------	83	172,267	3.76
1899	Wayne,	457	9	309,069	------	------	------	------	------
1900		------	11	21,862	------	------	------	------	------
1901		447	142	369,462	------	------	------	------	------
1902		------	------	------	------	------	------	------	------
1903		125	128	68,895	1	------	1	68,895	8.00
1904		125	241	71,353	------	------	------	------	------
1905		136	234	67,008	------	------	------	------	------
1906		202	162	71,381	------	------	------	------	------
1907		270	152	85,594	------	------	------	------	------
1908		212	13	63,906	------	------	------	------	------
1909		184	10	50,339	------	------	------	------	------
1910		125	65	51,576	------	------	------	------	------
1911		84	76	70,150	1	------	1	70,150	11.91
1912		129	22	92,843	------	------	------	------	------
1913		23	17	52,814	------	------	------	------	------
1914		76	21	133,402	------	------	------	------	------
1915		71	45	105,274	1	------	1	105,274	14.08
1916		45	15	144,743	------	------	------	------	------
1917		612	211	726,518	------	------	1	726,518	1.63
1918		118	52	148,657	2	------	4	37,164	33.90
1919		86	28	74,632	2	------	3	24,877	34.88
1920		105	199	221,454	------	------	------	------	------
	Totals,	3,632	1,853	3,000,932	7	------	11	272,812	3.03

TABLE 19.—Employes inside and outside, fatalities inside and outside, fatalities per 1000 employes, production per fatality inside, number of inspectors, 1881-1920.

Years	Inside				Outside				
	Employes	Fatalities	Fatalities per 1,000 employes	Production per fatality inside (net tons)	Employes	Fatalities	Fatalities per 1,000 employes	Fatalities inside and outside per 1,000 employes	Number of inspectors
1881,	45,619	234	5.13	146,165	30,412	39	1.28	3.59	6
1882,	50,764	254	4.92	140,230	31,436	41	1.30	3.54	6
1883,	56,268	274	4.87	137,764	35,153	49	1.39	3.53	6
1884,	61,922	286	4.62	127,513	39,151	46	1.17	3.28	6
1885,	62,901	290	4.61	131,834	37,419	42	1.12	3.31	7
1886,	63,930	236	3.69	165,046	39,114	43	1.10	2.71	7
1887,	67,716	270	3.99	156,153	38,801	46	1.19	2.97	7
1888,	78,688	317	4.03	147,114	43,530	47	1.08	2.98	7
1889,	74,178	339	4.57	128,763	45,468	58	1.28	3.32	7
1890,	73,613	323	4.39	139,276	46,306	55	1.19	3.15	7
Totals,	635,599	2,823	4.44	141,016	386,790	466	1.20	3.22	
1891,	76,569	372	4.86	133,606	46,739	56	1.20	3.47	8
1892,	82,088	361	4.40	141,903	48,212	57	1.18	3.21	8
1893,	86,387	388	4.49	136,188	51,682	68	1.32	3.30	8
1894,	87,901	368	4.19	138,497	52,038	78	1.50	3.19	8
1895,	89,251	354	3.97	160,872	54,454	67	1.23	2.93	8
1896,	94,798	430	4.54	125,217	55,290	72	1.30	3.34	8
1897,	95,812	372	3.88	141,347	53,745	51	.95	2.83	8
1898,	91,171	360	3.95	146,674	51,249	51	.90	2.89	8
1899,	92,334	389	4.21	155,574	48,270	72	1.49	3.28	8
1900,	94,140	358	3.80	160,233	49,684	53	1.07	2.86	8
Totals,	890,451	3,752	4.21	143,604	511,363	625	1.22	3.12	
1901,	98,434	441	4.48	152,142	49,217	72	1.46	3.47	8
1902,	98,377	245	*2.49	168,739	49,762	55	1.11	2.03	8
1903,	102,055	426	4.17	176,602	49,772	92	1.85	3.41	15
1904,	110,362	496	4.49	148,376	50,968	99	1.94	3.69	15
1905,	116,371	551	4.73	142,735	51,883	93	1.79	3.83	15
1906,	114,998	456	3.97	141,258	51,177	101	1.98	3.35	20
1907,	117,849	601	5.10	143,189	50,925	107	2.10	4.19	20
1908,	124,233	596	4.79	140,173	50,270	82	1.63	3.89	20
1909,	123,272	490	3.98	163,722	47,923	77	1.61	3.31	20
1910,	121,542	509	4.19	164,409	46,633	92	1.97	3.57	20
Totals,	1,127,493	4,811	4.27	154,138	498,530	870	1.75	3.49	
1911,	126,037	615	4.88	147,833	47,301	84	1.78	4.03	21
1912,	127,807	498	3.90	169,532	47,291	103	2.18	3.43	21
1913,	128,667	557	4.33	164,501	46,643	67	1.44	3.56	21
1914,	134,073	534	3.98	170,767	46,826	66	1.41	3.32	21
1915,	131,296	527	4.01	169,597	46,043	61	1.32	3.32	21
1916,	116,092	497	4.28	169,718	43,077	68	1.58	3.55	25
1917,	110,677	479	4.33	209,698	45,471	102	2.24	3.72	25
1918,	102,071	455	4.46	218,562	46,155	101	2.19	3.75	25
1919,	107,941	560	5.19	156,854	45,839	76	1.66	4.14	25
1920,	103,428	403	3.90	222,422	45,689	87	1.90	3.29	25
Totals,	1,188,089	5,125	4.31	178,065	460,335	815	1.77	3.60	

*Year of the big strike.

TABLE 20.—Employes, fatalities, fatalities per 1000 employes and per 1,000,000 tons produced, production per fatality, 1870-1920.

Year	Employes	Fatalities	Fatalities per 1,000 employes	Production (net tons)	Production per fatality	Fatalities per 1,000,000 tons produced
1870,	35,600	211	5.93	14,172,004	67,166	14.89
1871,	37,488	210	5.60	15,532,252	73,963	13.52
1872,	44,745	223	4.98	15,567,973	69,811	14.32
1873,	48,199	264	5.48	21,001,521	79,551	12.57
1874,	53,462	231	4.33	19,930,240	86,278	11.59
1875,	69,966	238	3.40	23,402,646	98,330	10.17
1876,	70,474	228	3.24	23,440,666	102,810	9.73
1877,	66,842	194	2.90	24,727,213	127,460	7.85
1878,	63,964	187	2.92	20,900,966	111,770	8.95
1879,	68,847	262	3.81	31,036,600	118,460	8.44
1880,	73,373	202	2.75	27,974,532	138,488	7.22
1881,	76,031	273	3.59	34,202,558	125,284	7.98
1882,	82,200	295	3.59	35,057,430	118,839	8.41
1883,	91,421	323	3.53	37,747,360	116,865	8.56
1884,	101,073	332	3.28	36,468,738	109,846	9.10
1885,	100,320	332	3.31	38,232,155	115,157	8.68
1886,	103,044	279	2.71	38,950,932	139,609	7.16
1887,	106,517	316	2.97	42,156,300	133,406	7.50
1888,	122,218	364	2.98	46,635,037	128,118	7.81
1889,	119,646	397	3.32	43,650,768	109,952	9.09
1890,	119,919	378	3.15	44,983,286	119,011	8.40
1891,	123,308	428	3.47	49,701,322	116,125	8.61
1892,	130,300	418	3.21	51,226,978	122,553	8.16
1893,	138,069	456	3.30	52,841,110	115,880	8.63
1894,	139,939	446	3.19	50,966,920	114,276	8.75
1895,	143,705	421	2.93	56,948,756	135,270	7.39
1896,	150,088	502	3.34	53,843,250	107,257	9.32
1897,	149,557	423	2.83	52,581,036	124,305	8.04
1898,	142,420	411	2.89	52,812,675	128,498	7.78
1899,	140,604	461	3.28	60,518,331	131,276	7.62
1900,	143,824	411	2.86	57,363,396	139,570	7.16
1901,	147,651	513	3.47	67,094,665	130,789	7.65
1902,	148,139	300	2.03	41,340,935	137,803	7.26
1903,	151,827	518	3.41	75,252,585	145,237	6.89
1904,	161,330	595	3.69	73,594,369	123,688	8.08
1905,	168,254	644	3.83	78,647,020	122,123	8.19
1906,	166,175	557	3.35	72,139,510	129,514	7.72
1907,	168,774	708	4.19	86,056,412	121,549	8.23
1908,	174,503	678	3.89	83,543,243	123,220	8.12
1909,	171,195	567	3.31	80,223,833	141,488	7.07
1910,	168,175	601	3.57	83,683,994	139,241	7.18
1911,	173,338	699	4.03	90,917,176	130,067	7.69
1912,	175,098	601	3.43	84,423,869	140,477	7.12
1913,	175,310	624	3.56	91,626,964	146,838	6.81
1914,	180,899	600	3.32	91,189,641	151,983	6.58
1915,	177,339	588	3.32	89,377,706	152,003	6.58
1916,	159,169	565	3.55	87,680,198	155,183	6.44
1917,	156,148	581	3.72	100,445,299	172,883	5.78
1918,	148,296	556	3.75	99,445,794	178,859	5.59
1919,	153,780	636	4.14	87,838,024	138,110	7.24
1920,	149,117	490	3.29	89,636,036	182,931	5.47

TABLE 21.—Accidents in which five or more persons were killed, 1847-1920.

Date	Name of colliery	Location of colliery	Cause of accident	Number killed
1847, Feb.,	Spencer,	Pottsville,	Explosion of gas,	7
1869, Sept. 6,	Avondale,	Plymouth,	Mine fire,	179
1870, March 22,	Potts,	Locust Dale,	Boiler explosion,	5
Aug. 10,	Heins and Glassmire,	Middleport,	Cage falling down shaft,	9
Aug. 29,	Preston No. 3,	Girardville,	Car falling down slope,	7
1871, May 27,	West Pittston,	West Pittston,	Suffocation by smoke from burning breaker,	20
Oct. 2,	Otto Red Ash,	Branch Dale,	Explosion of gas,	5
1873, June 10,	Henry Clay,	Shamokin,	Explosion of gas,	10
1877, May 9,	Wadesville,	Wadesville,	Explosion of gas,	7
1878, Jan. 15,	Potts,	Locust Dale,	Explosion of gas,	5
1879, May 6,	Audenried,	Audenried,	Explosion of gas,	6
Nov. 2,	Mill Creek,	Mill Creek,	Explosion of gas,	5
1880, May 3,	Lykens Valley,	Shamokin,	Explosion of gas,	5
1882, May 24,	Kohinoor,	Shenandoah,	Explosion of gas,	5
1884, Aug. 21,	Buck Ridge,	Shamokin,	Mine fire,	7
1885, April 6,	Cuyler,	Raven Run,	Fall of roof,	10
Aug. 11,	West End,	Mocanaqua,	Suffocation by gas from boiler fire,	10
Oct. 21,	Plymouth No. 2,	Plymouth,	Explosion of gas,	6
Dec. 18,	Nanticoke No. 1,	Nanticoke,	Inrush of quicksand,	26
1886, Aug. 30,	Fair Lawn,	Scranton,	Explosion of gas,	6
Sept. 13,	Marvine,	Scranton,	Suffocation by gas,	8
Nov. 26,	Conyngham,	Wilkes-Barre,	Explosion of gas,	12
1887, April 27,	Tunnel,	Ashland,	Suffocation by gas,	5
Oct. 1,	Bast,	Big Mine Run,	Explosion of gas,	5
1889, May 9,	Kaska William,	Middleport,	Car falling on cage in shaft,	10
1890, Feb. 1,	Nottingham,	Plymouth,	Explosion of gas,	8
March 3,	South Wilkes-Barre No. 3,	Wilkes-Barre,	Explosion of gas,	8
April 2,	Susquehanna No. 4,	Nanticoke,	Explosion of gas,	5
May 15,	Jersey No. 8,	Ashley,	Explosion of gas,	26
1891, Feb. 4,	Spring Mountain No. 1,	Jeanesville,	Drowned by water from old workings,	13
Oct. 23,	Richardson,	Glen Carbon,	Suffocation by gas,	7
Nov. 8,	Susquehanna No. 1,	Nanticoke,	Explosion of gas,	12
1892, April 20,	Lytle,	Minersville,	Drowned by water from old workings,	10
July 23,	York Farm,	Pottsville,	Explosion of gas,	15
1893, April 1,	Neilson,	Shamokin,	Mine fire,	10
June 22,	Susquehanna No. 1,	Nanticoke,	Explosion of gas,	5
Sept. 21,	Lance No. 11,	Plymouth,	Explosion of gas,	6

1894,	Feb. 13,	Gaylord,	Plymouth,	Fall of roof,	13
	July 17,	East Sugar Loaf,	Stockton,	Explosion of powder and dynamite,	8
	Oct. 8,	Luke Fidler,	Shamokin,	Mine fire,	5
	Oct. 11,	Henry Clay,	Shamokin,	Boiler explosion,	6
1895,	Feb. 18,	West Bear Ridge,	Mahanoy Plane,	Explosion of gas,	5
	Oct. 7,	Dorrance,	Wilkes-Barre,	Explosion of gas,	7
1896,	June 28,	Twin,	Pittston,	Fall of roof,	58
	Oct. 29,	South Wilkes-Barre No. 3,	Wilkes-Barre,	Explosion of gas,	6
1897,	Jan. 13,	Wadesville,	Wadesville,	Crosshead falling down shaft,	5
	Sept. 28,	Jermyn No. 1,	Rendham,	Mine fire,	5
	Oct. 30,	Von Storch,	Scranton,	Mine fire,	6
1898,	May 26,	Kaska William,	Middleport,	Drowned by water from old workings,	6
	Oct. 1,	Midvale,	Wilkes-Barre,	Mine fire,	5
	Nov. 5,	Exeter,	West Pittston,	Car falling on cage in shaft,	9
1900,	Nov. 9,	Buck Mountain,	Mahanoy City,	Explosion of gas,	7
1901,	Oct. 25,	Buttonwood,	Plymouth,	Explosion of gas,	6
1902,	Nov. 29,	Luke Fidler,	Shamokin,	Explosion of gas,	7
	Dec. 9,	South Wilkes-Barre,	Wilkes-Barre,	Explosion of powder and dynamite,	5
1904,	Jan. 30,	Maple Hill,	Mahanoy City,	Explosion of powder and dynamite,	5
	May 5,	Lance,	Plymouth,	Explosion of powder and dynamite,	5
	May 5,	Locust Gap,	Locust Gap,	Mine fire,	5
	May 25,	Williamstown,	Williamstown,	Suffocation by gas from mine locomotive,	10
	Nov. 2,	Auchincloss,	Nanticoke,	Falling down shaft,	10
1905,	Feb. 18,	Lytle,	Minersville,	Fall of roof,	5
	March 9,	Clear Spring,	West Pittston,	Falling down shaft,	7
	April 26,	Conyngham,	Wilkes-Barre,	Falling down shaft,	10
1906,	May 15,	Shenandoah City,	Shenandoah,	Explosion of powder and dynamite,	7
	Aug. 6,	Susquehanna No. 7,	Nanticoke,	Explosion of gas,	6
1907,	March 2,	Holden,	Taylor,	Explosion of gas,	7
	June 18,	Johnson No. 1,	Priceburg,	Explosion of gas,	7
1908,	May 12,	Mount Lookout,	Wyoming,	Explosion of gas,	12
	May 13,	Prospect,	Midvale,	Fall of roof,	5
	July 15,	Williamstown,	Williamstown,	Explosion of powder and dynamite,	6
	Aug. 28,	Warrior Run,	Wilkes-Barre,	Mine cars,	6
1909,	March 2,	Pennsylvania No. 14,	Pittston,	Explosion of gas,	8
	Nov. 9,	Auchincloss,	Nanticoke,	Mine fire,	9
1910,	Jan. 11,	Nottingham,	Plymouth,	Explosion of gas,	7
	March 12,	South Wilkes-Barre No. 5,	Wilkes-Barre,	Explosion of gas,	7
1911,	April 7,	Pancoast,	Throop,	Mine fire,	72
	May 27,	Cameron,	Shamokin,	Explosion of gas,	5
	Sept. 12,	Marvine,	Scranton,	Mine cars,	5
	Oct. 3,	Drifton No. 2,	Freeland,	Cave-in,	5
1912,	Jan. 9,	Parrish,	Plymouth,	Explosion of gas,	6
1913,	Aug. 2,	East Brookside,	Tower City,	Explosion of gas,	20
1914,	May 29,	Maryd,	Maryd,	Overwinding of cage,	6
	Sept. 16,	Lehigh No. 4,	Lansford,	Explosion of gas,	7
	Dec. 9,	Diamond,	Scranton,	Falling down shaft,	13

TABLE 21.—Continued.

Date	Name of colliery	Location of colliery	Cause of accident	Number killed
1915, Feb. 17,	Prospect,	Wilkes-Barre,	Explosion of gas,	13
1916, Feb. 8,	Lance No. 11,	Plymouth,	Explosion of gas,	7
March 9,	Hollenback No. 2,	Wilkes-Barre,	Explosion of gas,	6
Aug. 8,	Woodward,	Edwardsville,	Explosion of gas,	6
1919, June 5,	Baltimore No. 5, (Baltimore Tunnel),	Wilkes-Barre,	Explosion of powder and dynamite,	92
July 8,	Lansford,	Lansford,	Explosion of gas,	8

NOTE: January 12, 1846—At 8 A. M. there was a subsidence of several acres of the surface at drifts Nos. 1 and 2 of the Delaware and Hudson mines at Carbondale, Luzerne (now Lackawanna) County. About 30 miners were at work in the vicinity of the cave-in, 14 of whom were killed. Only 6 bodies were recovered. Accounts of this disaster were published in the Miners' Weekly Journal, Pottsville, January 17 and 24, 1846.

August 14, 1871—At 9 A. M. an explosion of gas occurred at the Eagle Shaft mine near Pittston, in which 17 men were killed. The Public Ledger, Philadelphia, in its issue of August 16, 1871, gives a brief account of this disaster.

1919

FIRST DISTRICT

Lackawanna, Susquehanna, Sullivan and Wayne Counties
Benjamin Maxey, Inspector, Forest City

SUMMARY OF STATISTICS

Collieries in operation (breakers)	14
Washeries in operation,	4
Mines in district,	31
Gaseous mines in operation,	2
Non-gaseous mines in operation,	29
Tons of coal shipped to market,	2,205,519
Tons used at mines for steam and heat,	234,776
Tons sold to local trade and used by employes,	60,998
Tons produced, (gross)	2,501,293
Tons produced by electrical machines,	285,538
Persons employed inside,	3,479
Persons employed outside,	1,502
Persons employed inside between 16 and 21 years,	321
Persons employed outside between 14 and 21 years,	299
Fatal accidents inside,	18
Fatal accidents outside,	5
Serious non-fatal accidents inside,	44
Serious non-fatal accidents outside,	4
Tons produced per fatal accident inside,	138,961
Tons produced per fatal accident inside and outside,	108,752
Persons employed per fatal accident inside,	193
Persons employed per fatal accident outside,	301
Persons employed per fatal accident inside and outside,	217
Persons employed per non-fatal accident inside,	81
Persons employed per non-fatal accident outside,	300
Persons employed per non-fatal accident inside and outside,	104
Wives made widows,	17
Children made orphans,	47
Steam locomotives outside,	16
Electric motors inside,	72
Electric motors outside,	3
Tubular boilers,	79

Cylindrical boilers,	7
Steam engines of all classes,	196
Electric dynamos,	38
Pumps of all classes,	132
Pumps delivering water to surface,	39
Air compressors,	6
Fans in use,	32

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons.
Hudson Coal Company,	503,980
Hillside Coal and Iron Company,	439,690
Temple Coal Company,	311,702
Connell Anthracite Mining Company,	274,048
Scranton Coal Company,	239,460
Mount Jessup Coal Company, Limited,	219,611
Northern Anthracite Coal Company,	161,344
Robertson Coal Company,	133,030
Racket Brook Coal Company,	130,185
Barton Coal Company,	23,702
Carbondale Coal Mining Company,	18,823
Staples and Bell, Inc., and Dexter and Carpenter, Inc.	15,903
Bright Coal Company,	13,048
Simpson Coal Company,	7,812
Grove Hill Coal Company,	6,270
J. W. Kirby and Sons, Inc.,	2,685
Total,	2,501,293

Production by Counties

Lackawanna,	1,368,088
Susquehanna,	631,177
Sullivan,	435,392
Wayne,	66,636
Total,	2,501,293

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	3	------	3	11	------	11	167,993	45,816	601	196	797	200	------	55	------
Hillside Coal and Iron Co.,	4	2	6	2	------	2	109,925	219,845	730	198	928	182	99	365	------
Temple Coal Co.,	2	------	2	4	------	4	155,851	77,926	454	232	686	227	------	113	------
Connell Anthracite Mining Co.,	2	------	2	3	1	4	137,024	91,349	356	141	497	178	------	119	141
Scranton Coal Co.,	1	2	3	6	3	9	239,460	39,910	327	231	558	327	115	55	77
Mount Jessup Coal Co., Limited,	4	------	4	7	------	7	54,903	31,373	449	123	572	112	------	64	------
Northern Anthracite Coal Co.,	------	------	------	7	------	7	------	23,049	237	95	332	------	------	34	------
Racket Brook Coal Co.,	2	1	3	3	------	3	65,092	43,395	237	80	317	118	80	79	------
Grove Hill Coal Co.,	------	------	------	------	1	1	------	6,270	27	14	41	------	------	------	14
Other Operators—no accidents,	------	------	------	------	------	------	------	------	61	192	253	------	------	------	------
Totals and averages,	18	5	23	43	5	48	138,961	58,170	3,479	1,502	4,981	193	301	81	300

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Hudson Coal Co.									
Clinton,	Lackawanna, Susquehanna, Wayne,	Clifford,	26	Slope,	Non-gas,	1		886	
Temple Coal Co.									
Northwest,	Lackawanna,	Clark,	66	Slope,	Non-gas,	1		10,604	
Connell Anthracite Mining Co.									
Connell,	Sullivan,	Dunmore,	48	Drift,	Non-gas,	15		274,048	
Mt. Jessup Coal Co., Limited*									
Totals.						17		285,538	

*Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co.						
Clinton	Lackawanna, Wayne, Susquehanna	R. Y. Williams	Scranton	Nathaniel Dixon	Forest City	Delaware & Hudson
Clinton Washery	Wayne					
Hillside Coal and Iron Co.						
Forest City	Susquehanna	Joseph P. Jennings	Moosic	Arthur Wrightson	Forest City	Erie.
Temple Coal Co.						
Northwest, Lackawanna	Lackawanna	F. H. Hemelright	Scranton	John Mellow	Jermyn	N. Y. O. & W.; Erie; D. L. & W.
Connell Anthracite Mining Co.						
Connell	Sullivan	W. L. Connell	Scranton			Lehigh Valley.
Scranton Coal Co.						
Ontario, Ontario Washery,†	Lackawanna	J. W. Smith	Peckville	J. J. Aitken	Dickson City	N. Y. O. & W.
Mount Jessup Coal Co., Limited						
Mount Jessup No. 2	Lackawanna	E. H. Ford	Peckville			Delaware & Hudson
Northern Anthracite Coal Co.						
Murray	Sullivan	Frank T. Morgan	Lopez			Lehigh Valley.
Robertson Coal Co.						
Robertson Washery	Lackawanna	W. G. Robertson	Scranton			N. Y. O. & W.
Racket Brook Coal Co.						
Racket Brook	Lackawanna	E. B. Burr	Carbondale			Delaware & Hudson
Barton Coal Co.						
Barton Washery,*	Lackawanna	F. P. Benjamin	Scranton	William D. Evans	Peckville	N. Y. O. & W.
Carbondale Coal Mining Co.						
Boland	Lackawanna	L. P. Boland	Carbondale			Delaware & Hudson

TABLE 1.—Continued

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Staples and Bell, Inc., and Dexter and Carpenter, Inc. Richmondale Washery.	Lackawanna,	W. O. Staples,	Scranton,	H. F. Warner,	Carbondale,	N. Y. O. & W.
Bright Coal Co. Bright,	Lackawanna,	David Spruks,	Scranton,	Jonathan Vipond,	Scranton,	N. Y. O. & W.
Simpson Coal Co. Simpson,‡	Lackawanna,	C. Hollister,	Carbondale,	James Kilker,	Carbondale,	N. Y. O. & W.
Grove Hill Coal Co. Grove Hill,	Lackawanna,	F. H. Smith,	Peckville,			Wagon haul to Erie Railroad.
J. W. Kirby and Sons, Inc. Stillwater.	Susquehanna,	J. W. Kirby,	Scranton,	Emory Rolls,	Forest City,	Erie.
Thornton Coal Co. Loyalsock,†						

†Idle
*New operation
‡Formerly Tip Top mine, of Tappan Coal and Supply Co., and Tip Top Coal Co.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employe	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Clinton *,	Lackawanna, Wayne, Susquehanna,	418,107	21,788	4,344	444,239	288	797	3	11	368,950	105,565	4,560
Clinton Washery,	Wayne,	55,406	4,335		59,741	288						
Totals,		473,513	26,123	4,344	503,980		797	3	11	368,950	105,565	4,560
Hillside Coal and Iron Co.												
Forest City,	Susquehanna,	396,689	32,128	10,873	439,690	285	928	6	2	353,950	77,000	60,355
Temple Coal Co.												
Northwest,	Lackawanna,	65,413	7,351	749	73,513	164	168	-------	-------	15,600	20,650	-------
Lackawanna,		178,140	38,110	21,939	238,189	221	518	2	4	90,600	75,475	-------
Totals,		243,553	45,461	22,688	311,702	-------	686	2	4	106,200	96,125	-------
Connell Anthracite Mining Co.												
Connell,	Sullivan,	223,639	46,000	4,409	274,048	268	497	2	4	123,688	25,225	-------
Scranton Coal Co.												
Ontario,	Lackawanna,	162,841	73,658	2,961	239,460	240	558	3	9	33,125	118,375	-------
Mount Jessup Coal Co., Limited												
Mount Jessup No. 2,	Lackawanna,	212,502	1,200	5,909	219,611	264	572	4	7	71,050	96,861	13,080
Northern Anthracite Coal Co.												
Murray,	Sullivan,	153,380	5,000	2,964	161,344	205	332	-------	7	120,000	2,500	-------

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Robertson Coal Co. Roberston Washery,	Lackawanna,	132,597	325	108	133,030	184	83					
Racket Brook Coal Co. Racket Brook,	Lackawanna,	127,065	721	2,399	130,185	271	317	3	3	178,900	72,662	
Barton Coal Co. Barton Washery,	Lackawanna,	23,582	120		23,702	148	34					
Carbondale Coal Mining Co. Boland,	Lackawanna,	13,074	3,600	2,149	18,823	303	42			400	1,200	200
Staples and Bell, Inc., and Dexter and Carpenter, Inc. Richmondale Washery,	Lackawanna,	15,903			15,903	127	10					
Bright Coal Co. Bright,	Lackawanna,	10,866	100	2,082	13,048	214	35			12,500		
Simpson Coal Co. Simpson,	Lackawanna,	7,612	200		7,812	191	25			10,000	4,500	
Grove Hill Coal Co. Grove Hill,	Lackawanna,	6,108	50	112	6,270	105	41		1	550	300	2,725
J. W. Kirby and Sons, Inc. Stillwater,	Susquehanna,	2,595	90		2,685	120	24			125	20	
Grand totals,		2,205,519	234,776	60,998	2,501,293		4,981	23	48	1,379,438	600,333	80,920

* Coal mined in Lackawanna and Susquehanna Counties and taken out through openings in Wayne County.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.,	Lackawanna, Susquehanna, Wayne	----	-------	5	1,205	38	3,867	----	------	1	300	22	8,830	5	1,470	78	----	2	----	9	1	100
Hillside Coal and Iron Co.,	Susquehanna,	----	-------	23	3,300	34	4,000	----	------	5	1,430	29	13,750	10	4,500	61	----	3	----	21	1	240
Temple Coal Co.,	Lackawanna,	----	-------	14	3,250	21	2,530	----	------	5	875	29	17,750	7	5,200	----	----	5	----	15	----	-------
Connell Anthracite Mining Co.,	Sullivan,	----	-------	7	1,900	10	1,530	----	------	4	750	----	-------	2	800	9	----	----	----	14	----	-------
Scranton Coal Co.,	Lackawanna,	6	120	10	1,735	43	2,788	----	------	2	115	33	12,031	7	3,600	88	----	3	----	2	----	-------
Mount Jessup Coal Co. Ltd.,	Lackawanna,	1	50	----	-------	35	2,243	----	------	1	25	9	6,300	3	3,750	38	----	----	----	1	1	1,200
Northern Anthracite Coal Co.,	Sullivan,	----	-------	6	540	6	540	----	------	----	-------	----	-------	----	-------	35	----	----	----	----	----	-------
Robertson Coal Co.,	Lackawanna,	----	-------	1	100	----	-------	----	------	----	-------	1	1,200	----	-------	----	----	----	----	----	----	-------
Racket Brook Coal Co.,	Lackawanna,	----	-------	1	100	1	15	----	------	17	1,200	4	700	3	600	12	----	3	----	8	2	1000
Barton Coal Co.,	Lackawanna,	----	-------	2	125	----	-------	----	------	----	-------	----	-------	----	-------	----	----	----	----	----	----	-------
Carbondale Coal Mining Co.,	Lackawanna,	----	-------	6	200	7	175	----	------	----	-------	2	375	1	250	8	----	----	----	----	1	500
Bright Coal Co.,	Lackawanna,	----	-------	1	50	----	-------	----	------	3	52	----	-------	----	-------	4	----	----	----	2	----	-------
Simpson Coal Co.,	Lackawanna,	----	-------	1	30	----	-------	----	------	----	-------	1	50	1	50	2	----	----	----	----	----	-------
Grove Hill Coal Co.,	Lackawanna,	----	-------	1	40	----	-------	----	------	----	-------	----	-------	----	-------	4	----	----	----	3	----	-------
J. W. Kirby and Sons, Inc.,	Susquehanna,	----	-------	1	60	1	20	----	------	----	-------	----	-------	----	-------	3	----	----	----	----	----	-------
Totals,	----------	7	170	79	12,625	196	17,708	----	------	38	4737	132	61,786	39	20,220	342	----	16	----	75	6	2040

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners.	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Susquehanna, Lackawanna, Wayne,	1	7	------	207	184	*	------	9	9	62	11	5	------	8	2	24	72	601
Hillside Coal and Iron Co.,	Susquehanna,	4	9	------	401	118	------	------	18	18	40	22	6	6	8	8	11	61	730
Temple Coal Co.,	Lackawanna,	4	5	3	189	59	------	1	13	13	10	33	4	5	11	1	7	96	454
Connell Anthracite Mining Co.,	Sullivan,	1	4	------	152	11	24	------	38	------	------	12	11	12	9	2	------	80	356
Scranton Coal Co.,	Lackawanna,	2	4	------	174	52	------	------	2	------	41	10	1	3	8	------	3	27	327
Mount Jessup Coal Co., Limited,	Lackawanna,	1	4	4	201	104	------	1	2	------	59	6	1	2	5	6	8	45	449
Northern Anthracite Coal Co.,	Sullivan,	1	1	------	93	24	------	------	------	------	32	8	2	23	3	2	10	38	237
Robertson Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Racket Brook Coal Co.,	Lackawanna,	1	9	------	107	46	------	------	8	8	16	15	------	3	------	7	------	17	237
Barton Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Carbondale Coal Mining Co.,	Lackawanna,	1	------	------	7	3	------	------	------	------	1	------	------	------	------	------	------	------	12
Staples and Bell, Inc., and Dexter and Carpenter, Inc.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Bright Coal Co.,	Lackawanna,	1	1	------	8	7	------	------	1	------	3	1	------	------	------	------	------	------	22
Simpson Coal Co.,	Lackawanna,	1	------	------	6	6	------	------	------	------	2	------	------	------	------	------	------	------	15
Grove Hill Coal Co.,	Lackawanna,	1	1	------	8	8	------	------	------	------	5	------	2	------	------	------	------	2	27
J. W. Kirby and Sons, Inc.,	Susquehanna,	1	------	------	5	4	------	------	------	------	2	------	------	------	------	------	------	------	12
Totals,		20	45	7	1,558	626	24	2	91	48	273	118	32	54	52	28	63	438	3,479

*Not reported

TABLE 3.—PART 1.—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Susquehanna, Lackawanna, Wayne,	1	4	5	4	24	7			2	8	141	196	797
Hillside Coal and Iron Co.,	Susquehanna,	1	1	3	18	27	5		5	12	2	124	198	928
Temple Coal Co.,	Lackawanna,		2	3	26	28	13	6	31		7	116	232	686
Connell Anthracite Mining Co.,	Sullivan,		1	3	5	15	3	4	22	23	6	59	141	497
Scranton Coal Co.,	Lackawanna,	1	1	4	9	39	5	4	37	16	2	113	231	558
Mount Jessup Coal Co., Limited,	Lackawanna,	1	1	3	10	8	4	1	5		6	84	123	572
Northern Anthracite Coal Co.,	Sullivan,	1	2	2	2	6	1		17	27	3	34	95	332
Robertson Coal Co.,	Lackawanna,	1	1	1	5	2	2		5	7	1	58	83	83
Racket Brook Coal Co.,	Lackawanna,	1	4	3	7	12	7	4	10		5	27	80	317
Barton Coal Co.,	Lackawanna,		1	1	2	2	1		1	1	1	24	34	34
Carbondale Coal Mining Co.,	Lackawanna,	1	2	1	1	6		2	1		2	14	30	42
Staples and Bell, Inc., and Dexter and Carpenter, Inc.,	Lackawanna,		1									9	10	10
Bright Coal Co.,	Lackawanna,	1		1	1				6			4	13	35
Simpson Coal Co.,	Lackawanna,	1	1			1			2			5	10	25
Grove Hill Coal Co.,	Lackawanna,	1			1				5	1	1	5	14	41
J. W. Kirby and Sons, Inc.,	Susquehanna,					2	1	1	5			3	12	24
Totals,		11	22	30	91	172	49	22	152	89	44	820	1,502	4,981

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Susquehanna, Wayne, Lackawanna,	26	24	25	24	25	23	25	26	19	26	21	24	288
Hillside Coal and Iron Co.,	Susquehanna,	26	15	18	24	26	24	26	26	25	26	23	26	285
Temple Coal Co.,	Lackawanna,	19	10	10	15	18	19	18	16	16	19	16	17	193
Connell Anthracite Mining Co.,	Sullivan,	26	17	24	21	22	23	21	23	23	23	22	23	268
Scranton Coal Co.,	Lackawanna,	22	19	12	21	21	20	21	21	20	22	19	22	240
Mount Jessup Coal Co., Limited,	Lackawanna,	25	14	10	22	20	22	24	25	25	27	24	26	264
Northern Anthracite Coal Co.,	Sullivan,	25	5	7	11	17	9	18	22	19	25	22	25	205
Racket Brook Coal Co.,	Lackawanna,	28	18	12	23	23	23	23	25	24	26	19	27	271
Carbondale Coal Mining Co.,	Lackawanna,	26	23	26	25	25	26	25	26	25	27	23	26	303
Bright Coal Co.,	Lackawanna,	25	10	11	15	21	19	18	17	19	21	17	21	214
Simpson Coal Co.,	Lackawanna,					25	24	24	25	24	25	24	20	191
Grove Hill Coal Co.,	Lackawanna,	11				12			20	20	15	15	12	105
J. W. Kirby and Sons, Inc.,	Susquehanna,	20							20	20	20	20	20	120

TABLE 4.—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	2	George Marsh,	American,	Engineer,	40	M	1	5	Racket Brook,	Lackawanna,	Cars. Outside.
	8	George Mitchell,	American,	Cable boy,	18	S			Lackawanna,	Lackawanna,	Cars on gangway.
	21	William Shaughnessy,	American,	Jigtender,	20	S			Forest City,	Susquehanna,	Machinery in washery. Outside
Feb.	5	Julius Bahs,	American,	Miner's laborer,	44	M	1	1	Connell,	Sullivan,	Fall of roof on gangway.
April	8	Pasquali Belcish,	Italian,	Miner's laborer,	22	S			Mount Jessup No. 2,	Lackawanna,	Fall of roof at face of chamber.
	28	Frank O. Mahen,	Austrian,	Miner,	37	M	1	4	Clinton,	Wayne,	Explosion of powder at face of heading—charging.
May	5	Louis Cardinali,	Italian,	Miner,	33	S			Connell,	Sullivan,	Fall of roof on road.
	8	Barney Misusky,	Polish,	Laborer,	36	S			Lackawanna,	Lackawanna,	Fall of roof on plane.
		Patrick Dean,	Irish,	Laborer,	54	M	1		Ontario,	Lackawanna,	Railroad cars. Outside.
June	7	August Wallace,	Austrian,	Dumper,	55	M	1		Forest City,	Susquehanna,	Cars. Outside.
July	5	Lewey Novarini,	Italian,	Miner's laborer,	47	M	1	4	Mount Jessup No. 2,	Lackawanna,	Fall of roof at face of chamber.
	24	Steve Ruddy,	Slavonian,	Runner,	34	M	1	4	Racket Brook,	Lackawanna,	Cars on main road.
		Sepran Petrosky,	Lithuanian,	Miner,	48	M	1	3	Forest City,	Susquehanna,	Fall of roof on pillar work.
Aug.	15	George Dachman,	Slavonian,	Miner,	37	M	1	1	Mount Jessup No. 2,	Lackawanna,	Premature blast at face of chamber.
Sept.	16	Stanley Shander,	Polish,	Laborer,	48	M	1	4	Ontario,	Lackawanna,	Suffocated by rush of culm. Outside.
	22	Sylvester Brojenski,	Polish,	Miner,	26	M	1	3	Mount Jessup No. 2,	Lackawanna,	Fall of roof at face of chamber.
Oct.	2	Joseph Gursky,	Polish,	Miner,	47	M	1	7	Forest City,	Susquehanna,	Motor on gangway.
Nov.	14	James Murnin,	Scotch,	Miner,	55	M	1	2	Clinton,	Wayne,	Fall of roof in pillar work.
	15	William Knight,	English,	Miner,	49	M	1	3	Forest City,	Susquehanna,	Fall of roof at face of chamber.
	28	John Boyco,	Russian,	Miner's laborer,	45	M	1	4	Clinton,	Wayne,	Fall of roof at face of pillar.
Dec.	13	Frank Kokel,	Austrian,	Miner,	45	M	1	1	Forest City,	Susquehanna,	Fall of roof at face of chamber.
	23	Frank Gorel,	Polish,	Miner's laborer,	35	M	1	1	Racket Brook,	Lackawanna,	Flying coal from blast at face of chamber.
	29	Peter Cassalle,	Italian,	Miner,	36	S			Ontario,	Lackawanna,	Fall of coal in pillar work.

TABLE 5.—Serious non-fatal accidents inside and outside—(disability not less than 60 days)

Date		Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan.	17	Polish,	Driver,	19	S	Murray,	Sullivan,	Cars on road.
	18	Italian,	Miner,	29	S	Ontario,	Lackawanna,	Fall of rock in chamber.
	20	Russian,	Miner,	40	M	Mount Jessup No. 2,	Lackawanna,	Fall of rock in chamber.
	27	Russian,	Laborer,	58	M	Murray,	Sullivan,	Cars on road.
March	17	Austrian,	Miner,	51	M	Clinton,	Lackawanna,	Caught between car and door.
	24	Lithuanian,	Miner,	37	M	Racket Brook,	Lackawanna,	Explosion of powder at face of chamber.
April	4	Austrian,	Miner,	32	M	Clinton,	Lackawanna,	Caught between car and door.
	12	Polish,	Miner,	46	M	Murray,	Sullivan,	Fall of rock in chamber.
	22	Austrian,	Miner,	24	M	Forest City,	Susquehanna,	Fall of roof.
		American,	Miner,	55	M	Connell,	Sullivan,	Falling in chamber.
	24	Italian,	Miner,	35	M	Mount Jessup No. 2,	Lackawanna,	Piece of flying coal in chamber.
	28	Russian,	Runner,	18	S	Clinton,	Lackawanna,	Cars on road.
		Polish,	Miner,	36	M	Racket Brook,	Lackawanna,	Flying piece of steel in chamber.
May	20	American,	Driver boss,	32	M	Clinton,	Lackawanna,	Cars on road.
	23	American,	Laborer,	16	S	Grove Hill,	Lackawanna,	Cars. Outside.
	24	Austrian,	Driver,	19	S	Ontario,	Lackawanna,	Cars on road.
		Austrian,	Laborer,	58	M	Mount Jessup No. 2,	Lackawanna,	Derailed car on road—rerailing.
June	12	Polish,	Laborer,	40	M	Clinton,	Lackawanna,	Fall of rock.
	18	Polish,	Miner,	39	M	Lackawanna,	Lackawanna,	Fall of top coal in chamber.
	26	American,	Miner,	47	M	Clinton,	Lackawanna,	Fall of roof.
		American,	Laborer,	64	M	Connell,	Sullivan,	Lifting wheel-barrow of stone. Outside.
July	9	American,	Miner,	25	M	Ontario,	Lackawanna,	Fall of coal in chamber.
	10	Slavonian,	Loader,	53	M	Ontario,	Lackawanna,	Falling off railroad cars under breaker. Outside.
	29	American,	Miner,	29	M	Mount Jessup No. 2,	Lackawanna,	Handling piece of coal—infection.
	31	Austrian,	Miner's laborer,	51	M	Clinton,	Lackawanna,	Fall of top rock.
Aug.	6	American,	Driver,	17	S	Mount Jessup No. 2,	Lackawanna,	Cars on road.
	8	American,	Miner,	48	M	Connell,	Sullivan,	Blast in chamber.
	14	American,	Laborer,	18	S	Mount Jessup No. 2,	Lackawanna,	Falling while walking down plane.
	17	Polish,	Miner,	48	M	Ontario,	Lackawanna,	Fall of rock at face of chamber.

TABLE 5.—Continued

Date		Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Aug.	19	American,	Jig runner,	18	S	Ontario,	Lackawanna,	Caught in scraper line. Outside.
	22	Austrian,	Miner's laborer,	23	M	Clinton,	Lackawanna,	Caught between cars.
	28	Lithuanian,	Miner,	40	M	Forest City,	Susquehanna,	Fall of coal from face.
		Austrian,	Laborer,	48	M	Clinton,	Lackawanna,	Fall of coal from face.
Sept.	11	German,	Laborer,	25	S	Lackawanna,	Lackawanna,	Falling—running to step on engine.
	23	Italian,	Miner,	28	M	Ontario,	Lackawanna,	Fall of coal in chamber.
	29	Austrian,	Footman,	28	M	Mount Jessup No. 2,	Lackawanna,	Falling while reralling car.
		Polish,	Companyman,	45	M	Connell,	Sullivan,	Fall of rock on road.
	30	Polish,	Driver,	21	S	Murray,	Sullivan,	Cars.
Oct.	1	Italian,	Miner,	34	M	Lackawanna,	Lackawanna,	Fall of rock in chamber.
	10	Polish,	Cable boy,	18	S	Lackawanna,	Lackawanna,	Cars on road.
	15	Polish,	Miner,	49	M	Clinton,	Lackawanna,	Rolling piece of rock.
Nov.	6	Russian,	Miner,	38	M	Murray,	Sullivan,	Fall of roof in chamber.
		Polish,	Miner's laborer,	25	M	Murray,	Sullivan,	Fall of top rock in chamber.
	8	Polish,	Miner's laborer,	45	M	Ontario,	Lackawanna,	Fall of coal in chamber.
	11	Russian,	Miner's laborer,	52	M	Murray,	Sullivan,	Flying piece of coal.
	26	American,	Brakeman,	17	S	Racket Brook,	Lackawanna,	Cars on road.
		Austrian,	Mason,	50	M	Clinton,	Lackawanna,	Shoveling rock—infection from blister.
Dec.	22	American,	Engineer,	16	S	Ontario,	Lackawanna,	Runaway car. Outside.

1919

SECOND DISTRICT

Lackawanna County

P. J. Moore, Inspector, Carbondale

SUMMARY OF STATISTICS

Collieries in operation (breakers),	15
Washeries in operation,	5
Mines in district,	27
Gaseous mines in operation,	2
Non-gaseous mines in operation,	25
Tons of coal shipped to market,	2,817,565
Tons used at mines for steam and heat,	277,182
Tons sold to local trade and used by employes,	47,475
Tons produced, (gross)	3,142,222
Persons employed inside,	4,447
Persons employed outside,	1,644
Persons employed inside between 16 and 21 years,	522
Persons employed outside between 14 and 21 years,	366
Fatal accidents inside,	21
Fatal accidents outside,	1
Serious non-fatal accidents inside,	25
Serious non-fatal accidents outside,	9
Tons produced per fatal accident inside,	149,630
Tons produced per fatal accident inside and outside,	142,828
Persons employed per fatal accident inside,	212
Persons employed per fatal accident outside,	1,644
Persons employed per fatal accident inside and outside,	277
Persons employed per non-fatal accident inside,	178
Persons employed per non-fatal accident outside,	183
Persons employed per non-fatal accident inside and outside,	179
Wives made widows,	14
Children made orphans,	25
Steam locomotives inside,	14
Steam locomotives outside,	11
Electric motors inside,	96
Electric motors outside,	2

Cylindrical boilers,	1
Tubular boilers,	81
Steam engines of all classes,	199
Electric dynamos,	42
Pumps of all classes,	144
Pumps delivering water to surface,	54
Air compressors,	19
Fans in use,	22

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Hudson Coal Company,	2,179,519
Scranton Coal Company,	381,737
Temple Coal Company	276,085
Archbald Coal Company,	94,466
Rhondda Coal Company,	77,589
Hillside Coal and Iron Company,	72,710
Humbert Coal Company,	23,275
Murrin Coal Company,	21,307
Spruks Mining Company,	5,372
Oak Run Coal Company,	4,329
Falls Mining Company,	3,975
Wilben Coal Company,	1,858
Total,	3,142,222

Production by Counties

Lackawanna	3,142,222

TABLE B—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	18	1	19	14	7	21	121,084	155,680	2,941	926	3,867	163	926	210	132
Scranton Coal Co.,	2	------	2	5	------	5	190,869	76,347	683	284	967	342	------	137	------
Temple Coal Co.,	1	------	1	------	1	1	276,085	------	404	159	563	404	------	------	159
Archbald Coal Co.,	------	------	------	4	1	5	------	23,617	147	98	245	------	------	37	98
Hillside Coal and Iron Co.,	------	------	------	2	------	2	------	36,355	180	42	222	------	------	90	------
Other Operators—no accidents,	------	------	------	------	------	------	------	------	92	135	227	------	------	------	------
Totals and averages,	21	1	22	25	9	34	149,630	125,089	4,447	1,644	6,091	212	1,644	178	183

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co. Coal Brook, Powderly, Jermyn, Gravity Slope, Coal Brook Washery, Powderly Washery, Jermyn Washery, Gravity Slope Washery,	Lackawanna,	R. Y. Williams,	Scranton,	William Davison, Richard Beer, Richard Beer, Evan B. Williams, Edward Flynn,	Carbondale, Carbondale, Carbondale, Jermyn, Peckville,	Delaware & Hudson
Scranton Coal Co. Raymond, Riverside,	Lackawanna,	James W. Smith,	Peckville,	J. J. Aitken,	Dickson City,	N. Y. O. & W.
Temple Coal Co. Sterrick Creek,	Lackawanna,	F. H. Hemelright,	Scranton,	John Mellow,	Jermyn,	Erie; D. L. & W.
Archbald Coal Co. Binghamton (Tappans),	Lackawanna,			Richard Howells,	Scranton,	Delaware & Hudson.
Rhondda Coal Co. Rhondda Washery,	Lackawanna,	F. P. Benjamin,	Scranton,	George A. Bell,	Peckville,	N. Y. O. & W.
Hillside Coal and Iron Co. Erie,	Lackawanna,	Joseph P. Jennings,	Scranton,	Arthur Wrightson,	Forest City,	Erie.
Humbert Coal Co. Sunnyside,	Lackawanna,	M. J. Loftus,	Jessup,			Erie.
Murrin Coal Co. Fall Brook,	Lackawanna,	Frank Murrin,	Carbondale,	Frank Murrin,	Carbondale,	N. Y. O. & W.
Spruks Mining Co. Watkins,‡	Lackawanna,	B. H. Goldberg,	Scranton,	B. H. Goldberg,	Dunmore,	N. Y. O. & W.
Oak Run Coal Co. Oak Run,	Lackawanna,	T. H. Wachna,	Mayfield,			Delaware & Hudson.

‡Stripping operation

TABLE 1.—Continued

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Falls Mining Co.						
Falls,	Lackawanna,	G. J. Thomas,	Carbondale,	John Price,	Carbondale,	N. Y. O. & W.
West Mountain,*						
Wilben Coal Co.						
Stone,	Lackawanna,	B. H. Goldberg,	Scranton,	Frank Hart, Patrick Boland,	Carbondale,	N. Y. O. & W.
United Collieries Co.						
Nos. 1 and 2,†						
John Fib Coal Co.						
John Fib Washery,¶						
Watkins Coal Co.§						
Brookside,						

* Operated by West Mountain Coal Co., previous to November, 1918.
†Abandoned in March 1919.
¶ Idle.
§ Ceased operation February 28, 1919

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quanity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Coal Brook,	Lackawanna,	662,084	37,017	--------	699,101	286	1,242	7	7	443,625	70,759	10,422
Powderly,	Lackawanna,	421,624	42,753	2,573	466,950	307	892	6	4	99,000	55,705	95,362
Jermyn,	Lackawanna,	383,631	15,855	3,589	403,075	297	757	2	5	229,250	87,931	18,319
Gravity Slope,	Lackawanna,	508,759	21,144	7,472	537,375	287	976	4	5	330,525	24,733	70,839
		1,976,098	116,769	13,634	2,106,501	--------	3,867	19	21	1,102,400	239,128	194,942
Washeries												
Coal Brook,	Lackawanna,	7,312	39,529	--------	46,841	*	*	--------	--------	--------	--------	--------
Powderly,	Lackawanna,	--------	213	--------	213	*	*	--------	--------	--------	--------	--------
Jermyn,	Lackawanna,	3,575	9,032	--------	12,607	*	*	--------	--------	--------	--------	--------
Gravity Slope,	Lackawanna,	12,462	895	--------	13,357	*	*	--------	--------	--------	--------	--------
		23,349	49,669	--------	73,018	--------	--------	--------	--------	--------	--------	--------
Totals,		1,999,447	166,438	13,634	2,179,519	--------	3,867	19	21	1,102,400	239,128	194,942
Scranton Coal Co.												
Raymond,	Lackawanna,	195,259	26,533	2,347	224,139	276	609	2	5	43,500	191,950	--------
Riverside,	Lackawanna,	119,007	37,167	1,424	157,598	271	358	--------	--------	68,750	59,000	10,000
Totals,		314,266	63,700	3,771	381,737	--------	967	2	5	112,250	250,950	10,000
Temple Coal Co.												
Sterrick Creek,	Lackawanna,	240,778	27,609	7,698	276,085	245	563	1	1	105,900	53,500	--------
Archbald Coal Co.												
Binghamton (Tappans),	Lackawanna,	88,248	3,948	2,270	94,466	236	245	--------	5	8,750	57,500	--------

*Included with collieries

TABLE 2.—PART 1—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Rhondda Coal Co.												
Rhondda Washery,	Lackawanna,	76,489	1,100	------	77,589	200	13	--------	--------	----------	----------	----------
Hillside Coal and Iron Co.												
Erie,	Lackawanna,	59,012	10,127	3,571	72,710	259	222	--------	2	80,600	85	36,195
Humbert Coal Co.												
Sunnyside,	Lackawanna,	19,184	4,000	91	23,275	153	56	--------	--------	5,000	3,200	----------
Murrin Coal Co.												
Fall Brook,	Lackawanna,	6,540	----------	14,767	21,307	196	51	--------	--------	----------	20,000	10,000
Spruks Mining Co.												
Watkins,**	Lackawanna,	4,718	210	444	5,372	176	35	--------	--------	----------	----------	----------
Oak Run Coal Co.												
Oak Run,	Lackawanna,	4,179	50	100	4,329	235	16	--------	--------	925	175	----------
Falls Mining Co.												
Falls,	Lackawanna,	970	----------	758	1,728	306	16	--------	--------	----------	12,000	----------
West Mountain,		2,215	----------	32	2,247	306	29	--------	--------	----------	12,000	----------
Totals,		3,185	----------	790	3,975	--------	45	--------	--------	----------	24,000	----------
Wilben Coal Co.												
Stone,	Lackawanna,	1,519	----------	339	1,858	152	11	--------	--------	750	----------	----------
Grand totals,		2,817,565	277,182	47,475	3,142,222	--------	6,091	22	34	1,416,575	648,538	251,137

** Stripping operation.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.,	Lackawanna,	----	----	43	10,158	116	15,233	----	----	17	7,968	91	89,220	35	18,800	264	----	14	----	81	6	1,610
Scranton Coal Co.,		----	----	15	2,315	23	2,414	----	----	2	157	27	12,345	9	6,000	92	----	3	----	3	6	2,934
Temple Coal Co.,		----	----	9	1,850	28	2,800	----	----	4	370	17	10,900	3	2,200	----	----	2	----	4	2	1,400
Archbald Coal Co.,		----	----	4	650	4	120	----	----	10	500	----	----	1	350	25	----	3	----	2	1	900
Rhondda Coal Co.,		----	----	1	150	----	----	----	----	----	----	1	800	----	----	----	----	----	----	----	----	----
Hillside Coal and Iron Co.,		----	----	6	900	14	750	----	----	1	150	6	2,400	2	1,560	12	----	----	----	5	1	260
Humbert Coal Co.,		----	----	3	240	3	25	----	----	----	----	----	----	3	800	13	----	2	----	1	1	170
Murrin Coal Co.,		----	----	----	----	1	25	----	----	3	125	----	----	----	----	6	----	1	----	----	1	140
Oak Run Coal Co.,		1	30	----	----	----	----	----	----	5	3,000	1	250	----	----	4	----	----	----	1	----	----
Falls Mining Co.,		----	----	----	----	----	----	----	----	----	----	1	150	1	150	3	----	----	----	1	1	50
Totals,		1	30	81	16,163	199	21,367	----	----	42	12,210	144	116,065	54	29,860	419	----	25	----	98	19	7,464

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miner's laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Lackawanna,	5	51	------	1,017	838	*3	26	83	117	232	62	20	24	15	9	98	341	2,941
Scranton Coal Co.,		2	4	------	256	165	------	------	3	2	87	15	1	3	9	------	7	129	683
Temple Coal Co.,		2	3	4	119	106	*3	------	3	3	63	28	2	5	4	------	1	58	404
Archbald Coal Co.,		3	------	------	101	------	------	------	2	2	29	4	1	2	------	------	1	2	147
Rhondda Coal Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Hillside Coal and Iron Co.,		1	1	------	84	69	------	------	5	5	6	4	------	------	------	2	------	3	180
Humbert Coal Co.,		1	------	------	4	4	------	------	1	1	2	2	------	------	1	------	------	------	16
Murrin Coal Co.,		1	------	------	13	13	------	------	------	------	------	3	------	------	------	------	------	------	30
Spruks Mining Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Oak Run Coal Co.,		1	------	------	2	2	------	------	------	------	1	------	------	------	------	------	------	------	6
Falls Mining Co.,		2	------	------	19	8	------	------	------	------	4	------	------	------	------	1	------	------	34
Wilben Coal Co.,		1	1	------	2	2	------	------	------	------	------	------	------	------	------	------	------	------	6
Totals		19	60	4	1,617	1,207	6	26	97	130	424	118	24	34	29	12	107	533	4,447

*No production by machine reported

TABLE 3.—PART 1.—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Lackawanna,	4	15	25	29	88	24	10	-------	88	39	604	926	3,867
Scranton Coal Co.,		1	2	8	8	43	3	9	81	25	2	102	284	967
Temple Coal Co.,		-------	1	2	12	15	12	8	18	-------	4	87	159	563
Archbald Coal Co.,		1	2	2	6	9	3	4	11	5	2	53	98	245
Rhondda Coal Co ,		-------	1	1	2	2	1	-------	1	1	1	3	13	13
Hillside Coal and Iron Co.,		-------	1	1	1	6	2	-------	2	1	2	23	42	222
Humbert Coal Co.,		1	1	1	2	7	2	1	7	6	1	11	40	76
Murrin Coal Co.,		1	-------	1	2	1	-------	2	-------	-------	1	13	21	51
Spruks Mining Co.,		1	1	1	-------	3	-------	10	1	-------	1	17	35	35
Oak Run Coal Co.,		1	-------	-------	1	1	-------	-------	2	-------	-------	5	10	1[illegible]
Falls Mining Co.,		2	-------	2	-------	-------	-------	-------	-------	-------	-------	7	11	45
Wilben Coal Co.,		1	-------	-------	-------	-------	1	-------	2	-------	-------	1	5	11
		13	24	44	63	175	48	44	125	126	53	929	1,644	6,091

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Lackawanna.	26	24	25	24	26	24	26	26	16	26	23	27	293
Scranton Coal Co.,		26	20	13	21	25	24	26	24	22	26	22	25	274
Temple Coal Co.,		22	12	11	21	22	22	24	23	22	24	21	21	245
Archbald Coal Co.,		26	9	6	15	22	22	22	23	22	24	22	23	236
Hillside Coal and Iron Co.,		25	21	24	20	21	19	22	22	21	22	20	22	259
Humbert Coal Co.,		20	-------	-------	-------	17	18	17	16	18	18	13	16	153
Murrin Coal Co.,		10	-------	12	15	15	16	21	6	25	27	24	25	196
Spruks Mining Co.,		-------	-------	-------	-------	-------	25	26	25	25	26	23	26	176
Oak Run Coal Co.,		20	22	23	17	20	21	10	23	24	13	24	18	235
Falls Mining Co.,		26	25	26	25	26	25	26	25	26	25	26	25	306
Wilben Coal Co.,		-------	-------	-------	-------	-------	-------	25	26	25	27	25	24	152

TABLE 4.—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	14	William P. Dougher,	American,	Motorman's assistant	35	M.	1	6	Gravity Slope,	Lackawanna,	Crushed between gangway pillar and motor.
Feb.	4	Boldo Larie,	Italian,	Miner,	27	M.	1	1	Raymond,		Fall of roof at face of pillar.
March	27	William Goodwin,	Welsh,	Miner,	59	M.	1		Coal Brook,		Fall of roof 20 feet from face of chamber.
	31	John Finnigan,	American,	Miner's laborer,	46	S.			Coal Brook,		Fall of roof at face of pillar.
April	17	William Strench,	Russian,	Machine runner,	28	M.	1	2	Jermyn,		Fall of roof at face of workings.
	28	Michael Dunrovich,	Polish,	Miner,	45	M.	1		Raymond,		Fall of roof at face of pillar.
May	15	Casper Gallis,	Austrian,	Miner,	36	M.	1	4	Sterrick Creek,		Fall of roof at face of gangway.
	22	George Reeves,	American,	Miner's laborer,	37	M.	1	3	Powderly,		Explosion of dynamite at face of gangway—charging.
	30	Richard F. Cummings,	American,	Laborer,	58	S.			Powderly,		Found dead on gangway. Cause unknown.
July	1	Louis Harr,	American,	Miner,	48	M.	1	2	Gravity Slope,		Fall of roof at face of pillar.
		John Harr,	American,	Miner's laborer,	18	S.					
	19	Joseph Jay,	English,	Miner,	53	M.	1	1	Jermyn,		Fall of roof at face of gangway.
	23	Thomas Quinn,	Irish,	Miner,	69	M.	1		Powderly,		Flying coal from cars that ran down chamber from gangway.
	29	Peter Olenick,	Russian,	Miner's laborer,	46	M.	1	1	Powderly,		Fall of roof at face of pillar.
Aug.	7	Michael Dyanick,	Austrian,	Miner's laborer,	36	M.	1	1	Coal Brook,		Fall of roof at face of pillar.
	9	Ignatz Roland,	American,	Miner's laborer,	19	S.			Powderly,		Fall of coal at face of pillar.
	11	Francis Connor,	American,	Motorman's assistant.	18	S.			Coal Brook,		Struck by prop on car on gangway.
Sept.	22	Raymond Blackenberg,	German,	Miner's laborer,	42	S.			Coal Brook,		Fall of coal at face of pillar.
Oct.	6	Thomas Kilhullen,	American,	Slatepicker,	16	S.			Powderly,		Railroad cars on weigh scales at breaker. Outside.
	14	John Tomcheck,	Austrian,	Miner's laborer,	35	M.	1	3	Coal Brook,		Fall of roof at face of pillar.
	23	Michael Balkon,	Polish,	Miner,	42	M.	1	[illegible]	Gravity Slope,		Fall of roof at face of pillar.
Dec.	17	Thomas A. Duffy,	American,	Headman,	23	S.			Coal Brook,		Struck by timber that slid back on car on which he was riding up plane.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 10	Ignatz Kovalcsky,	Lithuanian,	Miner's laborer,	18	S	Coal Brook,	Lackawanna,	Fall of roof at face of chamber.
March 5	Joseph Bonatch,	Italian,	Carpenter,	27	M	Coal Brook,		Struck by piece of casting. Outside.
8	George Orsnich,	American,	Slatepicker,	17	S	Powderly,		Falling in breaker. Outside.
15	Fred Gilliot,	Italian,	Car dumper,	52	M	Coal Brook,		Struck by piece of iron. Outside.
21	Steve Pietro,	Austrian,	Driver,	17	S	Binghamton,		Car on gangway—spragging.
22	John Myshak,	American,	Brakeman,	22	S	Jermyn,		Derailed motor—rerailing.
April 12	James Ruane,	American,	Miner's laborer,	46	M	Binghamton,		Fall of roof at face of chamber.
May 12	Joseph Petsego,	Slavonian,	Miner's laborer,	23	M	Coal Brook,		Struck by reel of motor on gangway.
	William Murray,	American,	Runner,	20	S	Erie,		Caught between motor and car on gangway.
22	Hayden Bennett,	American,	Miner,	33	M	Powderly,		Explosion of dynamite while pushing it in hole.
June 19	George Jubinski,	Russian,	Miner,	60	M	Jermyn,		Fall of roof at face of chamber.
23	Thomas McHale,	American,	Runner,	22	S	Gravity Slope,		Derailed car. Outside.
30	Philip Rossi,	Italian,	Miner,	30	S	Raymond,		Explosion of dynamite while pushing it in hole.
July 14	John Sewack,	American,	Slatepicker,	16	S	Storrick Creek,		Falling off railroad cars at breaker. Outside.
17	John Powers,	American,	Miner,	47	M	Jermyn,		Fall of roof at face of pillar.
18	Dominick Touch,	Italian,	Oiler,	18	S	Binghamton,		Falling in breaker. Outside.
Aug. 9	Serafino Cuccarini,	Italian,	Miner,	45	S	Raymond,		Flying coal from blast in adjoining chamber.
15	Andrew Crywasy,	Polish,	Miner's laborer,	30	M	Binghamton,		Caught between car and timber in chamber.
22	Phillip Jiminerio,	Italian,	Miner,	34	M	Binghamton,		Fall of coal at face of pillar.
29	Herman Loseup,	American,	Miner,	44	M	Raymond,		Fall of roof at face of chamber.
Sept. 3	John Benoria,	Italian,	Miner,	44	M	Raymond,		Premature blast at face of chamber.
6	Joseph Hucka,	Italian,	Miner,	35	M	Erie,		Pushing car out of chamber.
27	William Matus,	Lithuanian,	Miner,	49	M	Gravity Slope,		Flying piece of coal in chamber.
Oct. 13	Edward Smith,	American,	Miner,	43	M	Gravity Slope,		Fall of coal at face of chamber.
17	Antonio Toncreti,	Italian,	Laborer,	38	M	Coal Brook,		Struck by windlass handle. Outside.
23	Irvan Stagnets,	American,	Carpenter,	49	M	Jermyn,		Struck by piece of timber. Outside.
24	Clair Sietring,	American,	Runner,	21	S	Gravity Slope,		Struck by rope on slope.
27	Andrew Barna,	Russian,	Miner's laborer,	31	M	Coal Brook,		Fall of coal at face of pillar.
Nov. 19	Alock Kaismer,	Russian,	Laborer,	61	M	Powderly,		Slipping and falling on pipe. Outside.
4	James Mobillo,	Italian,	Miner,	39	M	Jermyn,		Fall of roof at face of chamber.
28	Stephen Revock,	Austrian,	Miner's laborer,	27	M	Powderly,		Fall of roof at face of chamber.
Dec. 1	Thomas Kenney,	American,	Miner,	47	M	Gravity Slope,		Fall of coal at face of chamber.
5	Joseph Perri,	American,	Brakeman,	18	S	Coal Brook,		Cars on gangway.
12	Edward Bercoskie,	Polish,	Miner's laborer,	28	M	Raymond,		Fall of coal at face of chamber.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Carbondale, May 6 and 7. The Board of Examiners was composed of the following persons: P. J. Moore, Mine Inspector, Carbondale; Edward Flynn, Superintendent, Archbald; Michael McCann, Miner, Carbondale; David R. Evans, Miner, Blakely.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Frank A. McHale, John A. Gavin, Jessup; Hubert Farrell, Henry Swartztrauber, Archbald; Edward N. Stuart, William H. Rowe, Richard Seymour, Jermyn.

ASSISTANT MINE FOREMEN

John Haite, Thomas F. Smith, Archbald; John Richardson, George Wiltshire, Joseph Morrison, Carbondale; Elijah Stephens, Edward Giles, Jermyn; William McGee, Mildred; Marvine W. Potter, Murray; Isaac J. Davis, Peckville; James F. Gallagher, Jessup; Michael Keegan, William Dickson, Olyphant; Thomas King, Blakely.

1919

THIRD DISTRICT

Lackawanna County

L. M. Evans, Inspector, Scranton

SUMMARY OF STATISTICS

Collieries in operation (breakers),	7
Washeries in operation,	5
Mines in district,	23
Gaseous mines in operation,	19
Non-gaseous mines in operation,	4
Tons of coal shipped to market,	2,341,119
Tons used at mines for steam and heat,	380,304
Tons sold to local trade and used by employes,	59,982
Tons produced (gross),	2,781,405
Tons produced by compressed air machines,	1,392
Tons produced by electrical machines,	114,605
Persons employed inside,	4,052
Persons employed outside,	1,355
Persons employed inside between 16 and 21 years,	280
Persons employed outside between 14 and 21 years,	407
Fatal accidents inside,	16
Fatal accidents outside,	1
Serious non-fatal accidents inside,	60
Serious non-fatal accidents outside,	6
Tons produced per fatal accident inside,	173,838
Tons produced per fatal accident inside and outside,	163,612
Persons employed per fatal accident inside,	253
Persons employed per fatal accident outside,	1,355
Persons employed per fatal accident inside and outside,	318
Persons employed per non-fatal accident inside,	69
Persons employed per non-fatal accident outside,	193
Persons employed per non-fatal accident inside and outside,	82
Wives made widows,	14
Children made orphans,	22
Steam locomotives outside,	7
Compressed air locomotives outside,	4
Electric motors inside,	78
Cylindrical boilers,	13
Tubular boilers,	54

Steam engines of all classes,	202
Electric dynamos,	8
Pumps of all classes,	111
Pumps delivering water to surface,	30
Air compressors,	9
Fans in use,	19

TABLE A

PRODUCTION OF COAL

Operators	Gross tons
Hudson Coal Company,	1,761,192
Delaware, Lackawanna and Western Railroad Company,	760,392
Von Storch Collieries Company,	105,511
Mid City Coal Company,	84,804
Legitts Creek Anthracite Company,	56,561
Scranton Coal Company,	12,945
Total,	2,781,405

Production by Counties

Lackawanna,	2,781,405

TABLE B—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	10	1	11	22	2	24	176,119	83,866	1966	555	2521	197	555	94	·185
Delaware, Lackawanna and Western Railroad Co.,	5	------	5	36	3	39	152,078	21,122	1320	297	1617	264	------	37	·09
Mid City Coal Co.,	------	------	------	2	1	3	------	42,402	186	57	243	------	------	93	57
Legitts Creek Anthracite Co.,	1	------	1	------	------	------	56,561	------	247	195	442	247	------	------	------
Other Operators—no accidents,	------	------	------	------	------	------	------	------	333	251	584	------	------	------	------
Totals and averages,	16	1	17	60	6	66	173,838	47,142	4052	1355	5407	253	1355	·69	·193

TABLE J—Operators and mines, name of coal bed, kind of openings, mining machines used, and approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines: Electric	Mining machines: Compressed air	Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
Hudson Coal Co.									
Eddy Creek,	Lackawanna,	Four Foot,	26	Shaft,	Gaseous,	2		14,783	
		New County,	30	Shaft,	Gaseous,	1		8,716	
Marvine,	Lackawanna,	Dunmore No. 4,	65	Shaft,	Gaseous,	1		15,031	
		Dunmore No. 3,	50	Shaft,	Gaseous,	2		14,716	
		Dunmore No. 4,	39	Shaft,	Gaseous,	1		4,990	
Legitts Creek,	Lackawanna,	Rock,	34	Shaft,	Gaseous,	1		2,564	
Dickson,	Lackawanna,	New County,	39	Shaft,	Gaseous,	3		48,723	
Totals,						11		109,426	
Mid City Coal Co.									
Bulls Head,	Lackawanna,	Rock,	48	Slope,	Non-gas,	1		5,179	
Legitts Creek Anthracite Coal Co.									
Legitts Creek,	Lackawanna,	Rock,	34	Shaft,	Gaseous,		1		1,128
		Dunmore,	30	Shaft,	Gaseous,		1		264
Totals,							2		1,392
Delaware, Lackawanna and Western Railroad Co.*									
Grand totals,						19	2	114,605	1,392

*Not reported

TABLE 1—Operators, location of collieries, railroads

Operators and collieries		General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co.						
Eddy Creek.	Lackawanna,	R. Y. Williams,	Scranton,	S. E. Van Horn,	Scranton,	Delaware & Hudson
Marvine,				E. McGlynn,		
Legitts Creek,						
Dickson Mine,						
Von Storch,				J. H. Pritchard,		
Eddy Creek Washery,				S. E. Van Horn,		
Marvine Washery,				E. McGlynn,		
Legitts Creek Washery,				J. H. Pritchard,		
Von Storch Washery,				J. H. Pritchard,		
Delaware, Lackawanna and Western Railroad Co.						
Diamond,	Lackawanna,	S. D. Dimmick,	Scranton,	David Girvan,	Scranton,	D. L. & W.
Cayuga,	Lackawanna,	S. D. Dimmick,	Scranton	George V. O'Hara,	Dickson City,	
Cayuga Washery,						
Diamond Washery,†						
Von Storch Collieries Co.						
Von Storch,‡	Lackawanna,	J. H. Pritchard,	Scranton	J. H. Pritchard,	Scranton,	Delaware & Hudson.
Mid City Coal Co.						
Bulls Head,	Lackawanna,	David Spruks,	Scranton	Charles H. Walker,	Scranton,	N. Y. O. & W.
Legitts Creek Anthracite Co.						
Legitts Creek,*	Lackawanna,	George H. Jones,	Scranton	Thomas F. Steele,	Scranton,	Delaware & Hudson.
Scranton Coal Co.						
West Ridge,	Lackawanna,	W. L. Allen,	Scranton	J. F. Cummings,	Scranton,	N. Y. O. & W.

*Operated by Hudson Coal Co., previous to October, 1919.
‡Operated by Hudson Coal Co., previous to November, 1919.
†Idle.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Eddy Creek,	Lackawanna,	662,088	18,039	----------	680,127	290	1,336	1	13	700,475	----------	191,816
Marvine,		343,954	58,178	14,493	416,625	281	796	4	4	424,975	18,973	68,785
Legitts Creek,		----------	----------	----------	----------	----------	----------	4	3	111,275	15,711	6,063
Dickson Mine,¶												
Von Storch,		403,552	46,435	24,440	474,427	241	368	2	4	279,325	18,075	126,635
		1,409,594	122,652	38,933	1,571,179	----------	2,500	11	24	1,516,050	52,759	317,780
Washeries:												
Eddy Creek,	Lackawanna,	25,015	92,607	359	117,981	§	§	----------	----------	----------	----------	----------
Marvine,		407	4,699	----------	5,106	§	21	----------	----------	----------	----------	----------
Legitts Creek,		835	30,831	----------	31,666	§	§	----------	----------	----------	----------	----------
Von Storch,		25,308	9,952	----------	35,260	§	§	----------	----------	----------	----------	----------
		51,565	138,089	359	190,013	----------	21	----------	----------	----------	----------	----------
Totals,	----------	1,461,159	260,741	39,292	1,761,192	----------	2,521	11	24	1,516,050	52,759	317,780
Delaware, Lackawanna and Western Railroad Co.												
Diamond,	Lackawanna,	437,183	46,818	----------	484,001	276	1,088	3	34	416,125	90,769	102,190
Cayuga,**		223,701	24,054	----------	247,755	276	497	2	5	74,825	1,207	207,406
		660,884	70,872	----------	731,756	--	----------	5	39	490,950	91,976	309,596
Cayuga Washery,		10,071	18,565‡	----------	28,636	180	32	----------	----------	----------	----------	----------
Totals,	----------	670,955	89,437	----------	760,392	----------	1,617	5	39	490,950	91,976	309,596

TABLE 2—PART 1—continued.

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used.
Von Storch Collieries Co.												
Von Storch,†	Lackawanna,	94,188	8,240	3,083	105,511	50	539	--------	--------	4,475	1,144	21,476
Mid City Coal Co.												
Bulls Head,	Lackawanna,	65,391	2,650	16,763	84,804	284	243	--------	3	8,750	775	21,225
Legitts Creek Anthracite Co.												
Legitts Creek,*	Lackawanna,	45,629	10,416	516	56,561	62	442	1	--------	14,650	4,066	11,269
Scranton Coal Co.												
West Ridge,	Lackawanna,	3,797	8,820	328	12,945	20	45	--------	--------	2,750	2,000	--------
Grand totals,		2,341,119	380,304	59,982	2,781,405	--------	5,407	17	66	2,038,625	152,720	681,359

*Operated by Hudson Coal Co., previous to October, 1919.
**Coal prepared at Diamond breaker.
†Operated by Hudson Coal Co., previous to November, 1919.
‡About 14,000 tons shipped to boiler plants of other collieries.
§Included with colliery.
¶Coal prepared at Von Storch Colliery.

TABLE 2—PART 2—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number.	Total capacity in cubic feet per minute
Hudson Coal Co.,	Lackawanna	----	--------	25	6,300	135	17,648	----	--------	5	1,500	65	48,330	10	9,900	212	----	3	----	28	5	2,580
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna	----	--------	14	3,500	23	2,795	----	--------	----	--------	18	3,182	10	2,000	55	----	----	----	34	1	441
Von Storch Collieries Co.,	Lackawanna	13	2,925	----	--------	16	1,750	----	--------	----	--------	6	7,000	6	7,000	28	----	4	4	5	1	950
Mid City Coal Co.,	Lackawanna	----	--------	1	200	2	130	----	--------	2	225	1	200	----	--------	32	----	----	----	4	----	--------
Legitts Creek Anthracite Co.,	Lackawanna	----	--------	8	2,160	16	1,227	----	--------	1	435	15	16,275	2	4,000	20	----	----	----	7	2	78
Scranton Coal Co.,	Lackawanna	----	--------	6	490	10	875	----	--------	----	--------	6	1,150	2	550	9	----	----	----	----	----	--------
Totals,	----------	13	2,925	54	12,650	202	24,425	----	--------	8	2,160	111	76,137	30	23,450	356	----	7	4	78	9	4,049

TABLE 3—PART 1—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Lackawanna,	4	14	17	644	474	10	9	20	23	301	19	1	21	15	4	46	344	1966
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	4	11	8	394	406	40	8	42	51	26	38	15	35	16	13	22	191	1320
Von Storch Collieries Co.,	Lackawanna,	1	------	3	87	102	------	------	1	2	32	6	1	7	------	------	6	59	307
Mid City Coal Co.,	Lackawanna,	1	2	1	56	62	1	1	4	4	8	6	------	27	2	2	------	9	186
Legitts Creek Anthracite Co.,	Lackawanna,	1	1	3	63	92	2	5	5	6	24	4	2	7	7	------	5	20	247
Scranton Coal Co.,	Lackawanna,	1	------	1	10	2	------	------	------	------	1	3	------	------	2	------	1	5	26
Totals,		12	28	33	1254	1138	53	23	72	86	392	76	19	97	42	19	80	628	4052

TABLE 3—PART 1—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Lackawanna,	2	6	12	18	74	6	1	14	150	15	257	555	2521
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	2	2	6	36	27	5	1	34	6	4	174	297	1617
Von Storch Collieries Co.,	Lackawanna,	1	2	2	13	26	8	1	17	2	7	153	232	539
Mid City Coal Co.,	Lackawanna,	1	1	1	4	5	1	-------	9	3	3	29	57	243
Legitts Creek Anthracite Co.,	Lackawanna,	1	6	2	24	34	6	-------	7	15	12	88	195	442
Scranton Coal Co.,	Lackawanna,	-------	1	2	2	6	-------	-------	-------	-------	1	7	19	45
Totals,		7	18	25	97	172	26	3	81	176	42	708	1355	5407

TABLE 3—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Lackawanna.	26	24	25	23	22	24	26	25	19	25	15	17	271
Delaware, Lackawanna & Western Railroad Co.,		26	17	16	24	25	24	26	26	18	26	23	25	276
Von Storch Collieries Co.,†		------	------	------	------	------	------	------	------	------	------	24	26	50
Mid City Coal Co.,		26	18	18	25	25	24	23	26	25	26	23	25	284
Legitts Creek Anthracite Co.,††		------	------	------	------	------	------	------	------	------	12	25	25	62
Scranton Coal Co.,		2	2	1	1	2	2	2	2	1	2	1	2	20

†Colliery operated by Hudson Coal Co. previous to November.
††Colliery operated by Hudson Coal Co. previous to October.

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 10	William Snaith,	English,	Miner's laborer,	44	M.	1	1	Marvine,	Lackawanna	Explosion of gas in old workings.
Feb. 11	William Zaleske,	Russian,	Miner's laborer,	36	M.	1	2	Marvine,		Falling off cage into shaft.
18	John Hanusack,	Austrian,	Miner's laborer,	22	M.	1		Legitts Creek,		Fall of roof at face of chamber.
28	William Berkavitch,	Russian,	Runner,	18	S.			Legitts Creek,		Cars in chamber.
March 29	Kenneth Charlesworth,	English,	Miner,	44	M.	1	3	Marvine,		Cars on gangway.
April 24	Robert Bohshus,	Russian,	Miner's laborer,	24	S.			Legitts Creek,		Fall of roof at face of chamber.
	Patrick Gillett,	Italian,	Laborer,	33	M.	1	1	Eddy Creek,		Cars on siding. Outside.
May 28	John Hobon,	American,	Trackman,	30	M.	1	3	Cayuga,		Cars on slope.
29	William Snaywinski,	Russian,	Miner,	46	M.	1		Legitts Creek,		Fall of roof at face of chamber.
July 18	William Lee,	American,	Miner's laborer,	44	M.	1		Marvine,		Fall of roof at face of chamber.
28	Balades Slavinski,	Lithuanian,	Miner's laborer,	38	M.	1	3	Dickson mine,		Fall of roof on gangway.
Aug. 1	Adam Matolovage,	Lithuanian,	Miner's laborer,	38	M.	1	2	Cayuga,		Blast at face of chamber—tamping.
Oct. 2	Joseph Marpus,	Lithuanian,	Miner,	33	S.			Diamond,		Premature blast at face of chamber.
Nov. 6	William Thomas,	Welsh,	Miner,	53	M.	1		Dickson mine,		Blast at face of chamber.
Dec. 13	Andrew Septakuwicz,	Russian,	Miner's laborer,	34	M.	1	2	Legitts Creek,		Fall of roof at face of working place.
19	Frank Romaski,	Lithuanian,	Miner,	40	M.	1	3	Diamond,		Blast at face of chamber.
22	Mike Sedlock,	Russian,	Miner,	29	M.	1	2	Diamond,		Fall of roof at face of chamber.

TABLE 5—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 6	Frank Michet,	Austrian,	Miner,	33	M	Dickson mine,	Lackawanna,	Fall of roof in chamber.
10	John Mustleback,	Polish,	Miner,	33	M	Eddy Creek,		Fall of roof while standing timber.
11	Thomas Barnfather,	American,	Miner,	35	M	Cayuga,		Fall of roof at face of tunnel.
14	Leo Dougher,	American,	Runner,	19	S	Diamond,		Blast while passing chamber.
	James Flynn,	American,	Teamster,	50	M	Diamond,		Falling from wagon. Outside.
17	Joseph Prinsco,	Russian,	Headman,	50	S	Bulls Head,		Cars near breaker. Outside.
27	Alva Sayers,	American,	Machinist,	60	M	Diamond,		Struck by wrench that slipped—tightening bolt.
	George Jeddo,	Polish,	Miner's laborer,	30	S	Cayuga,		Blast in chamber.
Feb. 10	Andrew Fedorka,	Russian,	Miner,	47	M	Eddy Creek,		Fall of roof while barring it down.
13	Mazinle Mozeckle,	Italian,	Laborer,	32	M	Diamond,		Cage striking the fans.
15	Lawrence E. Hart,	Irish,	Companyman,	55	M	Legitts Creek,		Cars on gangway.
26	Edward Tamboo,	American,	Brakeman,	23	S	Eddy Creek,		Derailed car.
March 11	George Tersmonie,	Italian,	Laborer,	38	M	Cayuga,		Cars. Outside.
18	Mike Sleonf,	Italian,	Laborer,	19	S	Eddy Creek,		Caught between cars. Outside.
25	Albert Peck,	Polish,	Miner's laborer,	35	M	Diamond,		Struck by piece of rock while taking down roof.
27	Michael Meko,	Russian,	Miner,	38	M	Eddy Creek,		Burned by gas in chamber.
April 8	Charles Beleski,	Polish,	Miner,	47	M	Diamond,		Blast.
15	Ivor Heartsborn,	American,	Brakeman,	20	S	Marvine,		Cars—closing latch.
17	Dom. Vileressa,	Italian,	Miner's laborer,	24	S	Bulls Head,		Piece of coal falling while throwing it into car.
18	Michael Barnott,	American,	Headman,	19	S	Eddy Creek,		Cars—snubbing wheel. Outside.
May 10	Michael Dushney,	Russian,	Miner,	35	M	Eddy Creek,		Fall of roof while taking it down.
16	George Witko,	American,	Headman,	19	S	Eddy Creek,		Car on gangway—snubbing wheel.
21	George Grozalas,	Russian,	Miner,	37	M	Legitts Creek,		Fall of roof at face of chamber.
24	Albert Smith,	American,	Driver,	18	S	Dickson mine,		Mule falling on him.
June 7	Michael Guddy,	Irish,	Runner,	23	M	Dickson mine,		Piece of coal falling from car.
12	Robert Griffiths,	American,	Laborer,	26	M	Marvine,		Struck by rail—rerailing car.
14	Andrew Coleman,	English,	Laborer,	64	M	Dickson mine,		Lifting rock—sprained.
21	Joseph Gaughn,	American,	Brakeman,	27	S	Diamond,		Caught between cars.
24	Frank Bascatti,	Italian,	Miner,	39	S	Diamond,		Bursting of air pipe.
29	James Kelley,	American,	Dumpman,	23	S	Cayuga,		Car—lifting.
July 1	John Bomerbaugh,	Polish,	Miner,	39	M	Diamond,		Flying piece of coal.
	Anthony Connally,	American,	Miner's laborer,	41	M	Diamond,		Fall of roof at face of tunnel.
5	Charles Maron,	Irish,	Motorman,	23	M	Diamond,		Cars—pouring sand on rail.

TABLE 5.—Continued

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
July 8	John Mitto,	American,	Miner,	29	M	Diamond,	Lackawanna	Stepping on nail.
12	John Evon,	Austrian,	Miner,	60	M	Eddy Creek,		Fall of roof in chamber.
14	William Kataski,	Polish,	Companyman,	60	M	Diamond,		Motor—opening door.
	Harry Roberts,	Welsh,	Brakeman,	22	S	Diamond,		Burned by gas.
	William Markey,	Welsh,	Laborer,	22	S			
15	John Revels,	American,	Driver,	17	S	Eddy Creek,		Unloading props from car.
17	John Woodbridge,	American,	Brakeman,	22	S	Diamond,		Cars—fixing latch.
19	Ignatz Renzovich,	Polish,	Miner,	58	M	Diamond,		Fall of roof in chamber.
27	Frank Attiles,	Lithuanian,	Miner's laborer,	36	M	Diamond,		Fall of roof.
29	Julian Brevettl,	Italian,	Laborer,	34	S	Legitts Creek,		Lifting derailed car.
Aug. 1	Car Carpehemis,	Lithuanian,	Miner,	40	M.	Cayuga,		Premature blast—tamping with iron bar
9	Phillip Davis,	American,	Runner,	18	S.	Diamond,		Cars—coupling.
Sept. 2	Ned Berardi,	Italian,	Miner,	32	M.	Diamond,		Fall of roof at face of chamber.
	Ralph Miller,	Italian,	Miner's laborer,	24	S.	Diamond,		Fall of roof at face of chamber.
4	Stanley Warpus,	Polish,	Miner,	29	S.	Diamond,		Struck by air pipe in chamber.
	John McAvery,	American,	Carpenter,	50	M.	Diamond,		Unloading props from wagon. Outside
8	Jacob Stemer,	Polish,	Miner,	46	M.	Diamond,		Fall of roof while standing prop.
19	Edward Symanski,	Polish,	Miner,	50	M.	Diamond,		Blast.
23	Carl Milanish,	Russian,	Laborer,	26	S.	Diamond,		Cars.
Oct. 2	James Austin,	American,	Motorman,	19	S.	Eddy Creek,		Lifting derailed car.
10	Charles Miller,	Lithuanian,	Miner's laborer,	36	S.	Diamond,		Blast.
14	Julian Witclavage,	Lithuanian,	Miner's laborer,	33	M.	Bulls Head,		Fall of roof at face of chamber.
19	Mike Lizmski,	Polish,	Motorman,	20	S.	Diamond,		Bumped between cars.
23	Alex Zelnski,	Lithuanian,	Miner,	45	M.	Diamond,		Fall of slant roof in chamber.
24	Gerald McCarthy,	American,	Laborer,	21	S.	Diamond,		Caught between moving cars.
30	Joseph Gobitake,	Polish,	Laborer,	43	M.	Diamond,		Fall of roof in chamber.
Nov. 7	William Burnevich,	Lithuanian,	Companyman,	26	S.	Marvine,		Thrown from cars.
19	Benjamin Joseph,	Russian,	Companyman,	31	M.	Diamond,		Cars—coupling.
28	Stanley Rengolfiski,	Polish,	Miner's laborer,	25	S.	Eddy Creek,		Fall of roof.
Dec. 9	Simon Morooney,	Irish,	Laborer,	46	M.	Marvine,		Struck by piece of ice that fell from shaft—getting off cage.
10	Peter Minkle,	Lithuanian,	Motorman,	27	M.	Diamond,		Falling under motor—trying to avoid burning trolley pole.
17	Luke Karwalick,	Polish,	Motorman,	21	S.	Diamond,		Derailed car—rerailing.
27	Joseph Yeszierski,	Polish,	Miner,	55	M.	Eddy Creek,		Fall of roof while loading car.

1919

FOURTH DISTRICT

Lackawanna County

Jenkin T. Reese, Inspector, Scranton

SUMMARY OF STATISTICS

Collieries in operation (breakers),	9
Washeries in operation,	3
Mines in district,	13
Gaseous mines in operation,	12
Non-gaseous mines in operation,	1
Tons of coal shipped to market,	1,564,324
Tons used at mines for steam and heat,	189,528
Tons sold to local trade and used by employes,	126,569
Tons produced (gross),	1,880,421
Tons produced by electrical machines,	287,087
Persons employed inside,	3,761
Persons employed outside,	1,076
Persons employed inside between 16 and 21 years,	273
Persons employed outside between 14 and 21 years,	201
Fatal accidents inside,	13
Fatal accidents outside,	1
Serious non-fatal accidents inside,	29
Serious non-fatal accidents outside,	12
Tons produced per fatal accident inside,	144,648
Tons produced per fatal accident inside and outside,	134,316
Persons employed per fatal accident inside,	289
Persons employed per fatal accident outside,	1,076
Persons employed per fatal accident inside and outside,	346
Persons employed per non-fatal accident inside,	130
Persons employed per non-fatal accident outside,	90
Persons employed per non-fatal accident inside and outside,	118
Wives made widows,	8
Children made orphans,	18
Steam locomotives outside,	1
Electric motors inside,	49
Cylindrical boilers,	12
Tubular boilers,	52
Steam engines of all classes,	126

Electric dynamos,	15
Pumps of all classes,	79
Pumps delivering water to surface,	24
Air compressors,	7
Fans in use,	15

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Scranton Coal Company,	699,893
Delaware, Lackawanna and Western Railroad Company,	389,834
Price-Pancoast Coal Company,	295,905
Pennsylvania Coal Company,	252,011
Peoples Coal Company,	127,714
Green Ridge Coal Company,	65,964
Hudson Coal Company,	24,124
Worden Coal Mining Company,	21,065
Se-Rob Coal Company,	3,911
Total,	1,880,421

Production by Counties

Lackawanna,	1,880,421

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Scranton Coal Co.,	7	1	8	12	4	16	99,985	58,324	1,329	331	1,660	189	331	111	83
Delaware, Lackawanna and Western Railroad Co.,	1	------	1	4	3	7	389,834	97,459	883	276	1,159	883	----------	221	92
Price—Pancoast Coal Co.,	2	------	2	5	3	8	147,953	59,181	589	181	770	295	----------	118	60
Pennsylvania Coal Co.,	1	------	1	4	1	5	252,011	63,003	360	134	494	360	----------	90	134
Peoples Coal Co.,	1	------	1	4	------	4	127,714	31,929	234	73	307	234	----------	59	----------
Green Ridge Coal Co.,	1	------	1	------	1	1	65,964	----------	108	55	163	108	----------	----------	55
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	258	26	284	----------	----------	----------	----------
Totals and averages,	13	1	14	29	12	41	144,648	64,842	3,761	1,076	4,837	289	1,076	130	90

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Scranton Coal Co.									
Pine Brook,	Lackawanna,	B or Dunmore,	36	Shaft,	Gaseous,	5		125,952	
Delaware, Lackawanna and Western Railroad Co.									
Hyde Park,	Lackawanna,	Five Foot,	48	Slope,	Non-gas,	6		133,450	
Pennsylvania Coal Co.									
Pennsylvania No. 5,	Lackawanna,	B or Dunmore,	58	Shaft,	Gaseous,	4		27,685	
Totals,						15		287,087	

TABLE 1—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Scranton Coal Co. Pine Brook, Capouse, Mt. Pleasant,	Lackawanna,	W. L. Allen,	Scranton,	J. F. Cummings,	Scranton,	N. Y., O. & W.
Delaware, Lackawanna and Western Railroad Co. Hyde Park, Brisbin, Hyde Park Washery, Brisbin Washery,	Lackawanna,	S. D. Dimmick,	Scranton,	F. A. Gleason, David Girvan, F. A. Gleason, David Girvan,	Scranton, Scranton, Scranton, Scranton,	D., L. & W.
Price-Pancoast Coal Co. Pancoast,	Lackawanna,	S. J. Jennings,	Throop,	F. G. Wilcox,	Throop,	N. Y., O. & W., D., L. & W., D. & H.
Pennsylvania Coal Co. Pennsylvania No. 5,	Lackawanna,	Joseph P. Jennings,	Scranton,	H. E. Yewens,	Scranton,	Erie
Peoples Coal Co. Oxford,	Lackawanna,	John G. Hayes,	Scranton,	William McLaughlin,	Scranton,	D. L., & W.
Green Ridge Coal Co. Green Ridge,	Lackawanna,	W. L. Connell,	Scranton,	W. L. Connell,	Scranton,	Erie; D. & H.
Hudson Coal Co. Manville,	Lackawanna,	R. Y. Williams	Scranton,	E. F. McGlynn,	Scranton,	Delaware & Hudson
Worden Coal Mining Co. Worden Washery,	Lackawanna,			A. E. Jones,	Throop,	N. Y., O. & W.
Se-Rob Coal Co. Se-Rob,	Lackawanna,	W. F. Sekol,	Scranton,	W. F. Sekol,	Scranton,	D. L. & W.
Petersburg Coal Co. Park,†						
Scranton Electric Co. Economy Washery,*						

*In operation only a few days in 1919.
†Failed to make report.

TABLE 2—PART 1—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Scranton Coal Co.												
Pine Brook,	Lackawanna,	413,242	30,9[illegible]8	12,588	456,779	277	902	6	10	447,500	42,500	500
Capouse,	Lackawanna,	95,692	19,59[illegible]	2,856	117,633	259	377	--------	1	87,500	19,000	81,000
Mt. Pleasant,	Lackawanna,	101,251	22,250	1,980	125,481	227	381	2	5	150,000	1,500	99,750
Totals,		610,186	72,789	16,918	699,893	--------	1,660	8	16	685,000	63,000	181,250
Delaware, Lackawanna and Western Railroad Co.												
Hyde Park,	Lackawanna,	249,065	23,426	37,846	310,347	273	616	1	5	283,150	37,365	75
Brisbin,***	Lackawanna,	16,581	2,239	1,504	20,324	30	474	--------	2	12,898	645	2,047
		265,646	25,675	39,350	330,671	--------	1,090	1	7	296,048	38,010	2,122
Washeries:												
Hyde Park,	Lackawanna,	224	129	--------	353	[illegible]	7	--------	--------	--------	--------	--------
Brisbin,	Lackawanna,	39,782	19,028	--------	58,810	311	62	--------	--------	--------	--------	--------
Totals,		40,006	19,157	--------	59,163	--------	69	--------	--------	--------	--------	--------
		305,652	*44,832	39,350	389,834	--------	1,159	1	7	296,048	38,010	2,122
Price-Pancoast Coal Co.												
Pancoast,	Lackawanna,	247,993	43,776	4,36[illegible]	295,905	248	770	2	8	335,075	11,800	600

Pennsylvania Coal Co.												
Pennsylvania No. 5,	Lackawanna,	213,484	10,396	28,131	252,011	285	494	1	5	214,450	----------	14,246
Peoples Coal Co.												
Oxford,	Lackawanna,	88,060	7,229	32,425	127,714	282	307	1	4	65,625	13,350	1,000
Green Ridge Coal Co.												
Green Ridge,	Lackawanna,	53,178	7,556	5,230	65,964	237	163	1	1	480	46,400	--------
Hudson Coal Co.												
Manville,§	Lackawanna,	20,860	2,950	314	24,124	291	182	------	--------	49,325	8[illegible]	10,378
Worden Coal Mining Co.												
Worden Washery,	Lackawanna,	21,065	----------	----------	21,065	180	12	------	--------	----------	----------	----------
Se-Rob Coal Co.												
Se-Rob,	Lackawanna,	3,846	----------	65	3,911	26	90	------	--------	6,300	----------	----------
Grand totals,		1,564,324	189,528	126,569	1,880,421	--------	4,837	14	41	1,652,303	173,416	209,596

*29,914 tons shipped to boiler plants at other collieries.
***Consolidated with Diamond mine, 3rd District.
§Coal prepared at Von Storch breaker, 3rd District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines																
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to surface			Locomotives					
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Scranton Coal Co.,	Lackawanna	12	180	19	3,095	44	3,950	----	--------	2	105	36	14,044	11	8,900	211	----	1	----	8	5	2,723
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna	----	--------	5	1,250	10	1,616	----	--------	2	800	12	7,200	2	800	62	----	----	----	25	----	--------
Price—Pancoast Coal Co.,	Lackawanna	----	--------	8	2,300	19	1,707	----	--------	2	2,000	12	4,000	3	2,500	82	----	----	----	2	2	4,000
Pennsylvania Coal Co.,	Lackawanna	----	--------	6	900	11	1,000	----	--------	3	505	11	4,600	2	900	34	----	----	----	11	----	--------
Peoples Coal Co.,	Lackawanna	----	--------	3	900	14	850	----	--------	4	297	----	--------	3	1,575	40	----	----	----	3	----	--------
Green Ridge Coal Co.,	Lackawanna	----	--------	6	750	8	710	----	--------	1	50	----	--------	----	--------	18	----	----	----	----	----	--------
Hudson Coal Co.,	Lackawanna	----	--------	4	900	20	2,041	----	--------	----	--------	8	4,350	3	1,400	29	----	----	----	----	----	--------
Worden Coal Mining Co.,	Lackawanna	----	--------	1	20	----	--------	----	--------	1	150	----	--------	----	--------	1	----	----	----	----	----	--------
Se-Rob Coal Co.,	Lackawanna	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	7	----	----	----	----	----	--------
Totals,	----------	12	180	52	10,115	126	11,874	----	--------	15	3,907	79	34,194	24	16,075	484	----	1	----	49	7	6,723

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Scranton Coal Co.,	Lackawanna.	3	5	9	452	281	3	4	13	13	266	22	6	40	28	7	42	140	1329
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna.	2	10	------	210	318	76	16	26	24	17	24	9	13	5	10	19	104	883
Price-Pancoast Coal Co.,	Lackawanna.	3	------	9	156	122	------	------	1	1	103	5	6	71	12	1	24	131	589
Pennsylvania Coal Co.,	Lackawanna.	1	6	------	85	96	16	8	11	11	12	12	1	------	3	6	------	92	360
Peoples Coal Co.,	Lackawanna.	2	3	2	50	90	------	------	3	3	30	4	4	24	7	1	1	10	234
Green Ridge Coal Co.,	Lackawanna.	1	1	1	75	------	------	------	5	------	20	3	------	------	------	------	------	2	108
Hudson Coal Co.,	Lackawanna.	1	3	------	76	13	------	------	------	------	30	3	1	3	2	------	5	31	168
Worden Coal Mining Co.,	Lackawanna.	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Se-Rob Coal Co.,	Lackawanna.	1	2	1	24	24	------	------	------	------	8	2	1	2	------	------	2	23	90
Totals,		14	30	22	1,128	944	95	28	59	52	486	79	28	93	52	25	93	533	[illegible]

TABLE 3.—PART 1.— Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Scranton Coal Co.,	Lackawanna	1	3	10	16	46	1	1	63	29	4	157	331	1,660
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna	-------	3	4	35	28	2	-------	17	8	7	172	276	1,159
Price-Pancoast Coal Co.,	Lackawanna	1	1	3	14	23	2	1	12	16	7	101	181	770
Pennsylvania Coal Co.,	Lackawanna	-------	1	2	5	6	2	-------	31	6	2	79	134	494
Peoples Coal Co.,	Lackawanna	1	2	2	3	9	4	-------	26	2	6	18	73	307
Green Ridge Coal Co.,	Lackawanna	1	1	1	3	7	1	-------	5	-------	2	34	55	163
Hudson Coal Co.,	Lackawanna	-------	-------	1	-------	6	-------	-------	-------	-------	1	6	14	182
Worden Coal Mining Co.,	Lackawanna	-------	1	-------	-------	1	-------	-------	-------	-------	1	9	12	12
Se-Rob Coal Co.,	Lackawanna	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	90
Totals,		4	12	29	76	126	12	2	154	61	30	576	1,076	4,837

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Scranton Coal Co.,	Lackawanna,	23	18	13	22	24	22	23	22	22	23	20	22	255
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	26	11	18	12	13	12	13	12	8	13	11	13	152
Price-Pancoast Coal Co.,	Lackawanna,	26	7	14	23	25	23	23	22	21	23	19	22	248
Pennsylvania Coal Co.,	Lackawanna,	26	15	18	25	26	24	26	26	24	26	23	26	285
Peoples Coal Co.,	Lackawanna,	25	12	20	24	25	25	25	26	25	26	24	25	282
Green Ridge Coal Co.,	Lackawanna,	21	16	15	22	22	21	21	21	19	18	20	21	237
Hudson Coal Co.,	Lackawanna,	27	24	25	23	26	24	25	25	18	24	24	26	291
Se-Rob Coal Co.,	Lackawanna,	26												26

TABLE 5—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 3	Anthony Wenesky,	Polish,	Miner,	37	M.	Pancoast,	Lackawanna	Cars in chamber.
14	Fartino Manno,	Italian,	Miner,	33	M.	Oxford,		Piece of coal falling from rib.
23	William Phillips,	Welsh,	Machine cutter,	32	M.	Pine Brook,		Mining machine in chamber.
26	Joseph Mengorelle,	Italian,	Miner,	50	M.	Oxford,		Fall of rock from rib in chamber.
28	Patrick Lyman,	American,	Ropeman,	34	M.	Oxford,		Fall of rock from roof on gangway.
Feb. 1	Ethelbert McNeal,	Irish,	Slatepicker,	16	S.	Green Ridge,		Falling on steps in breaker. Outside.
19	Joseph Muro,	Slavonian,	Ashman,	47	M.	Pancoast,		Machinery. Outside.
25	Joseph Stanhoff,	Polish,	Miner,	39	M.	Hyde Park,		Fall of coal from roof in chamber.
March 4	Thomas Carter,	American,	Miner's laborer,	28	M.	Capouse,		Struck by rope in chamber.
10	Adam Haddock,	Austrian,	Laborer,	24	M.	Brisbin,		Falling through floor of engine house. Outside.
April 1	Andrew Cosak,	Polish,	Ashman,	34	M.	Pine Brook,		Scalded by steam from hot ashes. Outside.
4	John Brown,	Polish,	Runner,	19	S.	Pine Brook,		Derailed cars.
10	James Vergenski,	Lithuanian,	Miner's laborer,	26	S.	Hyde Park,		Fall of rock from roof in chamber.
16	William Hill,	American,	Machine cutter,	34	S.	Pine Brook,		Coal—cutting machine.
22	Chris Vickers,	American,	Companyman,	42	S.	Pancoast,		Cars on gangway.
May 7	Nels Anderson,	Swedish,	Miner,	50	M.	Hyde Park,		Lifting large stone.
9	Edward Raymond,	American,	Carpenter,	54	M.	Hyde Park,		Steam saw. Outside.
	Louis Gonditz,	Lithuanian,	Miner,	35	M.	Hyde Park,		Fall of coal from roof at face of chamber.
13	William Kupinski,	Polish,	Miner's laborer,	46	M.	Pancoast,		Explosion of dynamite cap—ignited old papers containing cap.
14	John Angelo,	Italian,	Miner's laborer,	24	S.	Oxford,		Fall of roof at face of chamber.
29	Edward Jones,	American,	Runner,	29	S.	Pine Brook,		Bumped between cars.
June 19	John Bankas,	Polish,	Miner,	57	S.	Pine Brook,		Blast in chamber.
July 1	Samuel Hawley,	American,	Headman,	59	S.	Pancoast,		Struck by pry—rerailing car. Outside.
18	John Danneth,	Polish,	Miner,	40	M.	Mt. Pleasant,		Fall of roof at face of chamber.
	John Murphy,	American,	Miner,	35	M.			
24	Benjamin Hildebrand,	American,	Brakeman,	30	M.	Pennsylvania No. 5,		Cars on gangway.
	Frank Grumbroski,	Polish,	Doorman,	64	S.	Pennsylvania No. 5,		Cars on gangway—coupling.
Aug. 7	Anthony Ramano,	Italian,	Slatepicker,	17	S.	Mt. Pleasant,		Falling through floor of breaker. Outside.

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Mar. 4	Ignatz Walsiey,	Polish,	Runner,	21	S			Pine Brook,	Lackawanna,	Crushed between car and prop in chamber.
19	John Masacavage,	Polish,	Miner's laborer,	42	M	1	2	Pine Brook,		Derailed cars on passing branch.
April 4	Walter Granville,	American,	Brakeman,	31	S			Pine Brook,		Machinery in breaker. Outside.
17	Joseph Halawatz,	Austrian,	Footman,	27	M	1		Pine Brook,		Falling off cage into shaft.
May 12	Frank Novack,	Lithuanian	Miner	43	M	1		Hyde Park,		Fall of roof at face of chamber.
13	Andrew Toth,	Hungarian,	Miner,	48	M	1	1	Pancoast,		Fall of roof at face of chamber.
26	William Yazdeak,	Polish,	Miner,	37	M	1	6	Pancoast,		Premature blast at face of chamber.
31	Joseph Tarris,	Slavonian,	Runner,	28	M	1		Green Ridge,		Cars on gangway.
June 5	John Labude,	Polish,	Doorboy,	17	S			Pine Brook,		Runaway cars on gangway.
	Robert Gilroy,	Irish,	Driver,	19	S					Prop falling while lifting it on gangway.
9	Frank Duffy,	American,	Miner,	58	W			Oxford,		Fall of roof at face of chamber.
Sept. 27	Alex Koroski,	Polish,	Miner,	35	M	1	3	Pennsylvania No. 5		Cars on gangway.
	Thomas Williams,	American,	Doorboy,	17	S			Mt. Pleasant,		Fall of roof at face of chamber.
Oct. 3	Edward Lepinski,	Polish,	Miner,	40	M	1	1	Mt. Pleasant,		

TABLE 5—Continued

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Sept. 9	Mike Backasky,	American,	Oiler,	21	S	Mt. Pleasant,	Lackawanna	Machinery—oiling jig line. Outside.
13	Raymond Joseph,	American,	Messenger,	15	S	Pine Brook,		Falling on way to read meter. Outside.
18	George Rasson,	American,	Driver,	18	S	Pine Brook,		Cars on main road.
Oct. 3	John Lepinski,	Polish,	Miner,	55	M	Mt. Pleasant,		Fall of roof at face of chamber.
5	Patrick Murphy,	American,	Laborer,	26	M	Brisbin,		Falling from scaffold. Outside.
6	Ralph Shatack,	American,	Driver,	17	S	Pine Brook,		Cars on gangway.
10	John Reili,	Lithuanian,	Teamster,	48	M	Pancoast,		Caught by halter chain—untying mule Outside.
23	Frank DeBow,	American,	Carpenter,	52	S	Pennsylvania No. 5,		Falling timber. Outside.
Nov. 4	Pasqua Gingi,	Italian,	Miner,	37	M	Pennsylvania No. 5,		Fall of roof at face of chamber.
10	Ignatz Bella,	Austrian,	Miner's laborer,	46	M	Pancoast,		Fall of roof at face of chamber.
22	George Davis,	American,	Runner,	18	S	Pancoast,		Cars—spragging.
Dec. 4	Thomas Mullen,	American,	Miner,	37	M	Pine Brook,		Piece of coal falling from car.
5	John Ollwetti,	Italian,	Rockman,	28	S	Pennsylvania No. 5,		Burned by gas at face of rock tunnel.

1919

FIFTH DISTRICT

Lackawanna County

S. J. Phillips, Inspector, Scranton

SUMMARY OF STATISTICS

Collieries in operation (breakers),	9
Washeries in operation,	2
Mines in district,	26
Gaseous mines in operation,	16
Non-gaseous mines in operation,	10
Tons of coal shipped to market,	2,370,872
Tons used at mines for steam and heat,	191,924
Tons sold to local trade and used by employes,	65,790
Tons produced (gross),	2,628,586
Tons produced by electrical machines,	3,472
Persons employed inside,	4,707
Persons employed outside,	1,243
Persons employed inside between 16 and 21 years,	238
Persons employed outside between 14 and 21 years,	341
Fatal accidents inside,	21
Fatal accidents outside,	1
Serious non-fatal accidents inside,	93
Serious non-fatal accidents outside,	10
Tons produced per fatal accident inside,	125,171
Tons produced per fatal accident inside and outside,	119,481
Persons employed per fatal accident inside,	224
Persons employed per fatal accident outside,	1,243
Persons employed per fatal accident inside and outside	270
Persons employed per non-fatal accident inside,	51
Persons employed per non-fatal accident outside,	124
Persons employed per non-fatal accident inside and outside,	58
Wives made widows,	17
Children made orphans,	46
Steam locomotives outside,	8
Electric motors inside,	114
Tubular boilers,	46
Steam engines of all classes,	95
Electric dynamos,	11
Pumps of all classes,	120
Pumps delivering water to surface,	20
Air compressors,	16
Fans in use,	13
Mines abandoned,	1

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Delaware, Lackawanna and Western Railroad Company,	2,056,795
Hudson Coal Company,	474,094
Scranton Anthracite Coal Company,	51,275
W. Y. Moffat, Contractor,	25,392
John Gibbons Coal Company,	21,030
Total,	2,628,586

Production by Counties

Lackawanna,	2,628,586

Table B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Delaware, Lackawanna and Western Railroad Co.,	14	1	15	87	10	97	146,914	23,642	3,695	911	4,606	264	911	42	91
Hudson Coal Co.,	7	------	7	5	------	5	67,728	94,819	701	253	954	100	------	140	------
Scranton Anthracite Coal Co.,	------	------	------	1	------	1	------	51,275	150	48	198	------	------	150	------
Other Operators—no accidents,	------	------	------	------	------	------	------	------	161	31	192	------	------	------	------
Totals and averages,	21	1	22	93	10	103	125,171	28,264	4,707	1,243	5,950	224	1,243	51	124

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non gaseous	Secondary Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Delaware, Lackawanna and Western Railroad Co.									
Bellevue,	Lackawanna,	Dunmore,	40	Shaft,	Gaseous,	22		††	
Sloan,	Lackawanna,	Dunmore,	50	Shaft,	Gaseous,		2		††
Dodge,	Lackawanna,	Four Foot,	30	Shaft,	Gaseous,	5		††	
Totals,						27	2		
Hudson Coal Co.									
Greenwood,	Lackawanna,	Dunmore No. 2,	28	Shaft,	Non-gas,	1		3,472	
Grand totals,						28	2	3,472	

††Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Delaware, Lackawanna and Western Railroad Co.						
Bellevue,	Lackawanna,	W. W. Inglis,	Scranton,	Harry E. Harris,	Scranton,	D. L. & W.
Sloan,				F. A. Gleason,	Scranton,	
Archbald,				H. N. Smith,	Scranton,	
Dodge,				Harry E. Harris,	Scranton,	
National,				John R. James,	Scranton,	
Continental,††				H. N. Smith,	Scranton,	
Hampton Washery,	Lackawanna,	S. D. Dimmick,	Scranton,	F. A. Gleason,	Scranton,	
Hampton Power Plant,				H. M. Warren,	Scranton,	
Hudson Coal Co.						
Greenwood,	Lackawanna,	R. H. Buchanan,	Scranton,	Samuel Oakley,	Minooka,	Delaware & Hudson.
Greenwood Washery,						
Scranton Anthracite Coal Co.						
Oak Hill,	Lackawanna,	John F. O'Toole,	Scranton,	John J. McGuire,	Scranton,	N. Y., S. & W.
W. Y. Moffat, Contractor.						
Carleton,†	Lackawanna,	P. J. Conaboy,	Minooka,	P. J. Conaboy,	Minooka,	L. & W. V.
John Gibbons Coal Co.						
Gibbons,	Lackawanna,	James L. Gibbons,	Scranton,	James L. Gibbons,	Scranton,	Local trade.
Meadow Hill Coal Co.						
Meadow Hill Washery,***						
South Side Coal Co.						
South Side Washery,***						

***Abandoned.
†Formerly operated by Carleton Coal Co.
††Abandoned February 4, on account of mine fire.

TABLE 2.—PART 1—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Delaware, Lackawanna and Western Railroad Co.												
Bellevue,	Lackawanna,	369,213	23,135	53,349	445,697	255	962	4	18	293,350	77,842	
Sloan,	Lackawanna,	365,377	19,086	----------	384,463	273	817	4	22	587,625	75,040	11,775
Archbald,	Lackawanna,	306,038	23,802	7	329,907	266	729	2	18	292,075	20,630	48,760
Dodge,	Lackawanna,	334,049	24,017	42	358,108	256	737	3	21	433,950	83,682	
National,	Lackawanna,	256,529	13,707	6,302	276,538	254	642	2	13	250,925	----------	46,583
Continental,*	Lackawanna,	17,748	633	----------	18,381	30	558‡	--------	2	17,345	825	5,629
		1,649,014	104,380	59,700	1,813,094	--------	4,445	15	94	1,875,270	258,019	112,747
Hampton Washery,	Lackawanna,	194,909	48,792	----------	243,701	275	70	--------	1	----------	----------	----------
Hampton Power Plant,§	Lackawanna,	----------	----------	----------	----------	--------	91	--------	2	----------	----------	----------
Totals,		1,843,923	153,172	59,700	2,056,795	--------	4,606	15	97	1,875,270	258,019	112,747
Hudson Coal Co.												
Greenwood,	Lackawanna,	424,522	25,797	5,090	455,409	289	926	7	5	445,400	78,366	19,425
Greenwood Washery,	Lackawanna,	6,010	12,675	----------	18,685	289	28	--------	--------	----------	----------	----------
Totals,		430,532	38,472	5,090	474,094	--------	954	7	5	445,400	78,366	19,425
Scranton Anthracite Coal Co.												
Oak Hill,	Lackawanna,	51,275	----------	----------	51,275	305	198	--------	1	70,000	20,000	----------
W. Y. Moffat, Contractor.												
Carleton,	Lackawanna,	25,142	250	----------	25,392	187	85†	--------	--------	16,250	5,400	----------
John Gibbons Coal Co.												
Gibbons,	Lackawanna,	20,000	30	1,000	21,030	283	107	--------	--------	13,000	2,000	----------
Grand totals,		2,370,872	191,924	65,790	2,628,586	--------	5,950	22	103	2,419,920	363,785	132,172

†No breaker.
*Abandoned February 4, on account of mine fire.
‡198 employed from September 16 to December 31, fighting mine fire.
§Furnishes power to all collieries of Company.

TABLE 2—PART 2—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant: Boilers: Cylindrical: Number	Power plant: Boilers: Cylindrical: Total horse power	Power plant: Boilers: Tubular: Number	Power plant: Boilers: Tubular: Total horse power	Power plant: Engines: Steam engines (all classes): Number	Power plant: Engines: Steam engines (all classes): Total horse power	Power plant: Engines: Internal combustion engines (gas): Number	Power plant: Engines: Internal combustion engines (gas): Total horse power	Power plant: Engines: Electric dynamos (all classes): Number	Power plant: Engines: Electric dynamos (all classes): Total kilowatts	Pumps: Total number	Pumps: Total capacity in gallons per minute.	Pumps: Pumps delivering water to surface: Number	Pumps: Pumps delivering water to surface: Approximate number of gallons per minute	Haulage: Horses and mules	Haulage: Locomotives: Gasoline	Haulage: Locomotives: Steam	Haulage: Locomotives: Air	Haulage: Locomotives: Electric	Air compressors: Number	Air compressors: Total capacity in cubic feet per minute.
Delaware Lackawanna and Western Railroad Co.,	Lackawanna	----	----	39	14,036	63	8,501	----	----	9	12,880	85	43,500	12	22,300	75	----	2	----	107	12	240
Hudson Coal Co.,		----	----	6	1,350	32	2,619	----	----	1	75	24	13,070	3	2,500	116	----	5	----	2	1	1200
Scranton Anthracite Coal Co.,		----	----	1	60	----	----	----	----	1	20	9	700	3	700	----	----	----		5	2	600
W. Y. Moffat, Contractor,		----	----	----	----	----	----	----	----	----	----	----	----	----	----	6	----	1	----	----	----	----
John Gibbons Coal Co.,		----	----	----	----	----	----	----	----	----	----	2	250	2	250	6	----	----	----		1	100
Totals,		----	----	46	15,446	95	11,120	----	----	11	12,975	120	57,520	20	25,750	210	----	8	----	114	16	2,140

TABLE 3— PART 1—Number of each class of employes inside and outside

Operators	County	Inside																		Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Mortormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna	9	41	9	1247	1169	43	91	117	160	39	95	22	46	54	31	64	458	3395
Hudson Coal Co.,		1	14	------	292	113	*	*	2	------	143	17	------	------	3	1	------	115	701
Scranton Anthracite Coal Co.		1	2	------	64	47	------	------	7	4	4	2	2	------	8	2	2	5	150
W. Y. Moffat, Contractor,		1	1	------	30	30	------	------	------	------	9	2	------	------	------	1	------	4	78
John Gibbons Coal Co.,		1	------	------	20	22	------	------	------	------	5	2	------	------	------	------	------	33	83
Totals,		13	58	9	1653	1381	43	91	126	164	200	118	24	46	65	35	66	615	4707

*Not reported.

TABLE 3.—PART 1—Number of each class of employes inside and outside—Continued

Operators	County	Outside												Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna	3	7	21	49	60	12	1	217	8	22	511	911	4606
Hudson Coal Co.,	Lackawanna	1	2	7	15	38	6	2	-------	23	7	152	253	954
Scranton Anthracite Coal Co.	Lackawanna	1	2	2	4	4	2	1	4	-------	2	26	48	198
W. Y. Moffat, Contractor,	Lackawanna	1	-------	1	-------	1	-------	-------	-------	-------	1	3	7	85
John Gibbons Coal Co.,	Lackawanna	1	1	1	3	-------	-------	-------	5	-------	1	12	24	107
Totals,		7	12	32	71	103	20	4	226	31	33	704	1243	5950

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	24	9	11	20	21	20	21	22	14	21	19	20	222
Hudson Coal Co.,		26	24	26	24	26	23	26	25	17	26	21	25	289
Scranton Anthracite Coal Co.,		26	24	26	26	26	25	26	25	25	27	23	26	306
W. Y. Moffat, Contractor,		----------	----------	----------	----------	12	24	26	25	25	26	23	26	187
John Gibbons Coal Co.,		25	22	24	23	25	24	22	22	23	24	25	24	287

TABLE 4.—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	10	William Zack,	Austrian,	Miner's laborer,	47	M	1	4	Sloan,	Lackawanna,	Fall of roof near face of chamber.
Feb.	19	James E. Crane,	American,	Footman,	33	M	1	3	Greenwood,		Cars falling from outside landing on cage into shaft.
	19	Edward Harrison,	American,	Footman,	36	M	1	1	Dodge,		Fall of roof in place used for storing cars.
April	2	Arthur Henry,	American,	Driver,	16	S					
	8	John Zuchlewski,	Polish,	Miner,	47	M	1	5	Archbald,		Fall of roof in pillar work.
	11	Peter Osweijo,	Polish,	Miner,	48	M.	1	6	Bellevue,		Premature blast in pillar work.
	17	Joseph Schultz,	Bohemian,	Miner,	55	M	1	3	Archbald,		Fall of roof at face of chamber.
	23	Patrick Cawley,	Irish,	Miner's laborer,	33	M	1	1	Sloan,		Fall of roof near face of chamber.
		Valentine O'Malley,	Irish,	Doortender,	50	S			Greenwood,		Cars on main road.
May	2	Evan Lewis,	Welsh,	Miner,	40	S			Greenwood,		Premature blast at face of chamber.
	12	John Boginski,	Polish,	Miner,	34	M	1	2	Dodge,		Fall of roof at face of chamber.
	22	Thomas Edwards,	Welsh,	Miner's laborer,	34	S			Bellevue,		Fall of roof at face of chamber.
June	13	Leo Kruger,	Polish,	Miner's laborer,	44	M	1	4	Bellevue,		Caught against prop by piece of rock that he was handling—pillar work.
	17	Chesrea Antonochie,	Italian,	Miner,	36	M	1	3	National,		Fall of roof in pillar work.
July	8	Benjamin Kristovits,	Polish,	Miner,	30	S			Greenwood,		Fall of roof at face of chamber.
	24	Joseph Komeroski,	Polish,	Miner's laborer,	45	M	1		Bellevue,		Fall of roof at face of chamber.
	31	Amolio Raggi,	Italian,	Miner,	33	M	1	1	National,		Fall of roof in pillar work.
Sept.	2	William Cassidy,	American,	Engineer,	31	M	1	3	Sloan,		Falling into ventilating fan. Outside.
Nov.	12	Alex Rolefski,	Polish,	Miner,	38	M	1		Greenwood,		Fall of roof in pillar work.
		Wadislow Zurezak,	Polish,	Miner,	38	M	1	7			
	17	John Kowalchak,	Polish,	Miner,	43	M	1	1	Dodge,		Premature blast at face of gangway.
Dec.	4	Carmola Marcelno,	Italian,	Miner,	53	M	1	2	Sloan,		Premature blast near face of chamber.

TABLE 5—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 8	Michael Crwen,	Irish,	Companyman,	58	M.	Sloan,	Lackawanna	Piece of rock falling on him unloading cars. Outside.
9	William Mathews,	American,	Miner's laborer,	38	M.	Sloan,		Fall of clay from roof at face of chamber.
10	Patrick Philbin,	Irish,	Miner's laborer,	56	M.	Dodge,		Fall of roof at face of chamber.
16	Carmon Pagnotts,	Italian,	Miner,	36	M.	Greenwood,		Cars on main road.
23	Isaac Lavelle,	American,	Carpenter,	44	M.	Hampton Washery,		Falling off plank. Outside.
25	Frank Stefchick,	American,	Brakeman,	18	S.	Bellevue,		Cars on main road.
31	Charles Stifanick,	Polish,	Miner,	47	M.	Archbald,		Fall of roof at face of chamber.
Feb. 5	Frank Chakowski,	Polish,	Flushman,	49	M.	Bellevue,		Cars in abandoned chamber.
14	Joseph Murphy,	American,	Slatepicker,	15	S.	Dodge,		Falling in breaker. Outside.
17	John Sobreski,	Polish,	Miner,	43	M.	Sloan,		Fall of roof at face of chamber.
19	Joseph Smith,	Polish,	Miner's laborer,	59	M.	Archbald,		Falling at face of chamber.
	David Woodgatt,	American,	Footman,	37	M.	Greenwood,		Mine car falling down shaft while on cage.
	Edward Donnelly,	American,	Footman,	19	S.			
21	Anthony Misiliniski,	Polish,	Miner,	40	M.	Sloan,		Premature blast at face of chamber.
Mar. 14	Ignatz Shiletski,	Polish,	Miner's laborer,	34	M.	Dodge,		Fall of roof at face of chamber.
18	Charles Malis,	Irish,	Teamster,	19	S.	Hampton Power Plant		Lifting material. Outside.
19	Paul Buzium,	Polish,	Miner's laborer,	40	M.	Sloan,		Putting coal on car at face of chamber.
31	John Reap,	Irish,	Miner,	64	M.	Dodge,		Falling at face of chamber.
April 8	John McNicholas,	Irish,	Miner,	52	M.	Sloan,		Fall of roof at face of chamber.
10	Anthony Karboski,	American,	Laborer,	27	S.	Dodge,		Falling. Outside.
12	Morgan Leyshon,	Welsh,	Miner,	32	M.	Sloan,		Fall of roof at face of chamber.
15	Vincent Pizikop,	Polish,	Miner's laborer,	35	M.	Bellevue,		Piece of rock falling from hand and striking foot—face of chamber.
16	Stanley Liptki,	Polish,	Miner,	46	M.	Sloan,		Blast at face of chamber.
17	John Lewis,	Welsh,	Miner,	44	M.	Sloan,		Fall of roof at face of chamber.
19	William Rojenski,	Russian,	Miner,	38	M.	Archbald,		Fall of roof at face of chamber.
21	Fred Awlrozimi,	Italian,	Miner,	42	M.	National,		Car near face of chamber.
22	Michael Coyne,	Irish,	Brakeman,	20	S.	National,		Cars on main road.
28	Thomas Zezula,	Polish,	Miner,	29	S.	Bellevue,		Blast.
May 1	John Perskuti,	Italian,	Miner,	40	M.	Sloan,		Fall of roof at face of chamber.
12	Michael Thornton,	American,	Brakeman,	20	S.	National,		Cars on main road.
	John Bumboski,	Polish,	Miner,	25	M.	Archbald,		Fall of roof at face of chamber.
13	William Jones,	Welsh,	Miner,	55	M.	Bellevue,		Blast at face of chamber.
16	William Brown,	Polish,	Miner,	32	M.	Bellevue,		Flying piece of coal from hammer in chamber.

	17	Simon Goshinsky,	Polish,	Miner's laborer,	51	M.	Bellevue,		Flying piece of coal from pick in chamber.
	19	Michael Mackin,	Irish,	Mason,	45	M.	Hampton Power Plant		Flying stone from blast. Outside.
	24	Frank Constant,	Polish,	Miner,	34	M.	Bellevue,		Car at face of chamber.
	27	Stanley Poploski,	Polish,	Miner,	40	M.	Greenwood,		Fall of roof at face of chamber.
June	2	Albert Frost,	American,	Companyman,	17	S.	National,		Caught between shaft and cage.
	3	Walter Gacuts,	Polish,	Machinist,	26	S.	Bellevue,		Caught in main door.
	12	Anthony Karpck,	Polish,	Miner's laborer,	44	M.	Dodge,		Fall of roof at face of chamber.
		Edward Notary,	Italian,	Miner's laborer,	23	S.	National,		Lifting prop at face.
		Charles Karreovitch,	Slavonian,	Miner,	33	M.	Archbald,		Struck by piece of coal at face of chamber.
	16	Anthony Miloeif,	Italian,	Miner,	35	S.	National,		Lifting material in chamber.
	24	Thomas Watkins,	American,	Brakeman,	19	S.	Dodge,		Fall of roof on main road.
	25	Mike Padoski,	Polish,	Miner's laborer,	39	M.	National,		Piece of coal that he was throwing into car in chamber.
	27	O. MacHugh,	Irish,	Laborer,	41	M.	Archbald,		Piece of cement falling from roof on main road.
		Stanley Koctak,	Polish,	Miner,	38	M.	Dodge,		Fall of roof at face of chamber.
		John Kohinski,	Polish,	Miner's laborer,	46	M.	Dodge,		Fall of roof at face of chamber.
				Companyman,	52	M.	Archbald,		Lifting rock in abandoned chamber.
July	1	Mike Brotoski,	Polish,	Miner's laborer,	42	M.	Archbald,		Pushing car from chamber.
	2	John Orczant,	Polish,	Loader,	47	S.	Dodge,		Railroad cars. Outside.
	5	Peter Payton,	Irish,	Miner's laborer,	35	M.	Dodge,		Fall of roof at face of chamber.
	9	Juluis Gobenliskie,	Polish,	Laborer,	32	S.	Archbald,		Cars on main road.
	12	Mike Fedock,	Austrian,	Yardman,	51	M.	Continental,		Falling. Outside.
	21	William D. Davis,	Welsh,	Timberman,	52	M.	Sloan,	Lackawanna	Explosion of powder on main road.
	23	Edward Jenkins,	Welsh,	Miner,	27	M.	Dodge,		Machinery in chamber.
	26	Arthur Thomas,	Welsh,	Laborer,	36	M.	Dodge,		Cars on main road.
		William Wasnack,	Polish,	Oiler,	52	M.	Bellevue,		Cars on main road.
	28	Michael McLaughlin,	Irish,	Pumpman,	35	M.	Dodge,		Machinery in pump room.
Aug.	2	Byron Watkins,	Welsh,	Doortender,	19	S.	Sloan,		Cars on main road.
	7	Thomas Rieley,	American,	Brakeman,	19	S.	Sloan,		Motor on main road.
	15	George Roach,	English,	Motorman,	28	M.	Archbald,		Cars on main road.
	21	Jacob Hooslek,	Polish,	Brakeman,	22	S.	National,		Cars on main road.
		John Powell,	American,	Miner's laborer,	30	M.	National,		Fall of roof at face of chamber.
	28	Anthony Cafield,	American,	Miner's laborer,	54	M.	Archbald,		Fall of roof at face of chamber.
Sept.	2	Frank Segelka,	Polish,	Miner,	60	S.			
		John Passicka,	Polish,	Miner,	60	M.	Dodge,		Cars at face of chamber.
	4	Albert Juloski,	Polish,	Miner,	27	M.	Dodge,		Cars at face of chamber.
	6	Felix Mondik,	Polish,	Miner,	58	M.	Bellevue,		Premature blast at face of chamber.
	8	Waddick Munski,	Polish,	Miner,	29	M.	National,		Flying piece of coal in chamber.
		James Pannella,	Italian,	Miner,	38	M.	National,		Premature blast at face of chamber.
	20	Titto Bajarri,	Italian,	Miner,	42	M.	Archbald,		Premature blast.
	22	Frank Potts,	Polish,	Miner,	19	S.	Archbald,		Cars on main road.
	26	William Schultz,	American,	Brakeman,	18	S.	Archbald,		Cars on main road.
		Mitchell Cappell,	Polish,	Doorboy,	23	M.	Archbald,		Struck by piece of coal while loading car.
		Henry Segelka,	Polish,	Miner's laborer,	27	S.	Sloan,		Fall of roof at face of chamber.
	30	Thomas Magowen,	Irish,	Miner,	30	M.	Archbald,		Fall of roof at face of chamber.
Oct.	1	Mike Gula,	Slavonian,	Miner's laborer,	30	S.	National,		Fall of roof at face of chamber.
	2	Michael Lilli,	Italian,	Miner,	50	M.	Bellevue,		Car in chamber.
	3	Anthony Lavendski,	Polish,	Miner's laborer,					

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Oct. 3	William Slogo,	Polish,	Miner's laborer,	48	M.	Sloan,	Lackawanna	Fall of roof at face of chamber.
6	Patrick O'Malley,	Irish,	Company laborer,	59	M.	Bellevue,		Piece of rolling coal in chamber.
12	Adam Shean,	Polish,	Miner's laborer,	40	S.	Sloan,		Moving piece of coal at face of chamber.
15	Joseph Cavellire,	Italian,	Miner,	35	M.	Sloan,		Lifting rock on gob at face of chamber.
17	Thomas King,	Irish,	Miner,	55	M.	Bellevue,		Burned by gas in crosscut.
19	Martin Witting,	German,	Carpenter,	47	M.	Dodge,		Falling off ladder. Outside.
20	William Swartz,	Slavonian,	Miner's laborer,	48	M.	Sloan,		Cars at face of chamber.
	Richard Joyce,	Irish,	Miner,	46	M.	Greenwood,		Fall of coal from roof at face of chamber.
Nov. 14	Anthony Mislinski,	Polish,	Miner,	40	M.	Sloan,		Cars on main road.
17	Mike Rusnak,	Polish,	Miner's laborer,	43	M.	Dodge,		Blast at face of chamber.
19	William Phillips,	Polish,	Miner,	30	M.	Sloan,		Premature blast near face of chamber.
22	John Dringo,	Polish,	Miner's laborer,	33	M.	Sloan,		Piece of coal falling from rib.
23	Anthony Rafike,	Polish,	Brakeman,	19	S.	National,		Moving piece of coal at face of chamber.
Dec. 9	Thomas Robson,	American,	Pipeman,	39	M.	Bellevue,		Sore finger infected by sulphur water.
	Peter Engle,	American,	Motorman,	31	M.	Bellevue,		Caught by motor—infection.
10	John Miller,	Polish,	Doortender,	58	M.	Dodge,		Falling on main road.
11	Joseph Brisne,	Polish,	Miner's laborer,	33	M.	Continental,		Burned while putting up timber at face in fire area.
12	Samuel Sheldon,	American,	Brakeman,	21	S.	Archbald,		Cars on main road.
15	William MacMullen,	English,	Miner,	35	M.	Dodge,		Fall of top coal in pillar place.
17	Patrick Hennigan,	Irish,	Fireman,	39	M.	Dodge,		Machinery in steam plant. Outside.
19	Joseph Sahmon,	American,	Brakeman,	20	S.	Sloan,		Motor on main road.
22	Frank Motski,	Polish,	Miner's laborer,	45	M.	Bellevue,		Flying piece of coal in chamber.
26	Edmund Thomas,	Welsh,	Miner,	57	M.	Bellevue,		Fall of roof at face of chamber.
27	Michael Waznack,	Russian,	Miner,	36	M.	Oak Hill,		Premature blast at face of chamber.

1919

SIXTH DISTRICT

Lackawanna County

D. T. Williams, Inspector, Scranton

SUMMARY OF STATISTICS

Collieries in operation (breakers),	12
Washeries in operation,	3
Mines in district,	28
Gaseous mines in operation,	11
Non-gaseous mines in operation,	17
Tons of coal shipped to market,	3,364,701
Tons used at mines for steam and heat,	246,805
Tons sold to local trade and used by employes,	69,622
Tons produced (gross),	3,681,128
Tons produced by electrical machines,	364,224
Persons employed inside,	5,231
Persons employed outside,	1,763
Persons employed inside between 16 and 21 years,	315
Persons employed outside between 14 and 21 years,	407
Fatal accidents inside,	19
Fatal accidents outside,	2
Serious non-fatal accidents inside,	58
Serious non-fatal accidents outside,	9
Tons produced per fatal accident inside,	193,744
Tons produced per fatal accident inside and outside,	175,292
Persons employed per fatal accident inside,	275
Persons employed per fatal accident outside,	881
Persons employed per fatal accident inside and outside,	333
Persons employed per non-fatal accident inside,	90
Persons employed per non-fatal accident outside,	196
Persons employed per non-fatal accident inside and outside,	104
Wives made widows,	12
Children made orphans,	44
Steam locomotives outside,	22
Compressed air locomotives inside,	7
Electric motors inside,	122

Electric motors outside,	4
Tubular boilers,	85
Steam engines of all classes,	164
Electric dynamos,	30
Pumps of all classes,	150
Pumps delivering water to surface,	27
Air compressors,	14
Fans in use,	17

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Pennsylvania Coal Company,	1,236,436
Delaware, Lackawanna and Western Railroad Company,	874,843
Hudson Coal Company,	845,341
Scranton Coal Company,	306,739
Quinn Coal Company,	119,443
Mount Jessup Coal Company, Limited,	82,440
Nay-Aug Coal Company,	67,053
Spencer Coal Company,	50,258
Bald Mountain Coal Company,	38,170
Carney and Brown Coal Company,	29,170
Staples and Bell, Inc., and Dexter and Carpenter, Inc.,	22,586
John J. Boland Coal Company,	8,649
Total,	3,681,128

Production by Counties

Lackawanna,	3,681,128

TABLE B.—Accidents inside and outside, number of tons of coal produced inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Emp'oyes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Pennsylvania Coal Co.,	6	------	6	11	------	11	206,073	112,403	1,526	543	2,069	254	------	139	------
Delaware, Lackawanna and Western Railroad Co.,	5	------	5	21	6	27	174,969	41,659	1,368	294	1,662	274	------	65	------
Hudson Coal Co.,	3	2	5	17	1	18	281,780	49,726	1,127	334	1,461	376	167	66	334
Scranton Coal Co.,	2	------	2	4	------	4	153,369	76,685	534	270	804	267	------	134	------
Quinn Coal Co.,	------	------	------	1	2	3	------	119,443	45	55	100	------	------	45	27
Nay-Aug Coal Co.,	------	------	------	1	------	1	------	67,053	108	45	153	------	------	108	------
Spencer Coal Co.,	------	------	------	3	------	3	------	16,753	143	27	170	------	------	48	------
Bald Mountain Coal Co.,	3	------	3	------	------	------	12,723	------	92	18	110	31	------	------	------
Other Operators—no accidents,	------	------	------	------	------	------	------	------	288	177	465	------	------	------	------
Totals and averages,	19	2	21	58	9	67	193,744	69,103	5,231	1,763	6,991	275	881	90	196

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines: Electric	Mining machines: Compressed air	Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
Pennsylvania Coal Co.,									
Pennsylvania No. 1,	Lackawanna,	Clark,	95	Shaft,	Gaseous,	2		20,444	
		Dunmore No. 2,	46	Shaft,	Gaseous,	2		14,600	
Underwood,	Lackawanna,	Rock,	108	Shaft,	Gaseous,	2		19,322	
		Pittston,	72	Shaft,	Gaseous,	3		28,983	
		New County,	30	Shaft,	Gaseous,	1		9,661	
		Clark,	84	Shaft,	Gaseous,	7		67,627	
		Dunmore No. 2,	52	Shaft,	Gaseous,	2		19,321	
		Dunmore No. 3,	50	Shaft,	Gaseous,	10		96,610	
Totals,						29		276,568	
Delaware, Lackawanna and Western Railroad Co.									
Storrs,	Lackawanna,	Dunmore No. 1,	30	Shaft,	Gaseous,	7		49,774	
Hudson Coal Co.									
Olyphant,	Lackawanna,	Four Foot,	48	Slope,	Non-gas,	4		12,148	
		New County,	50	Shaft,	Gaseous,	2		10,762	
		Bottom Clark,	42	Shaft,	Gaseous,	1		8,502	
Totals,						7		31,412	
Scranton Coal Co.									
Johnson,	Lackawanna,	Dunmore No. 2,	36	Shaft,	Gaseous,	1		6,470	
Grand totals,						44		364,224	

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Pennsylvania Coal Co. Pennsylvania No. 1, Underwood,	Lackawanna,	Joseph P. Jennings,	Dunmore,	H. E. Yewens, William Jeffrey,	Dunmore, Throop,	Erie.
Delaware, Lackawanna and Western Railroad Co. Storrs,	Lackawanna,	S. D. Dimmick,	Scranton,	George V. O'Hara,	Dickson City,	D., L. & W.
Hudson Coal Co., Olyphant, Olyphant Washery,	Lackawanna,	R. Y. Williams,	Scranton,	S. E. VanHorn,	Scranton,	Delaware & Hudson.
Scranton Coal Co. Johnson, Richmond No. 3,	Lackawanna,	W. L. Allen, General Manager.	Scranton,	John J. Aitken,	Dickson City,	N. Y., O. & W.
Quinn Coal Co. No. 6, No. 6 Washery,	Lackawanna,	Thomas F. Quinn,	Scranton,	M. J. Rafferty,	Scranton,	Erie.
Mount Jessup Coal Co. Mount Jessup No. 1,††	Lackawanna,	Edward H. Ford,	Peckville,	William X. Jones,	Peckville,	D., L. & W.; Erie; N. Y., O. & W., D. & H.
Nay-Aug Coal Co. Nay-Aug,	Lackawanna,	E. H. Leaning,	Carbondale,	John A. Hines,	Dunmore,	Erie.
Spencer Coal Co. Spencer,	Lackawanna,	David Spruks,	Scranton,	Jonathan Vipond,	Scranton,	Erie.
Bald Mountain Coal Co. Marshwood,†	Lackawanna,	Edward H. Ford,	Peckville,	William X. Jones,	Peckville,	D., L. & W.
Carney and Brown Coal Co. Carney and Brown,	Lackawanna,	John Carney,	Dunmore,	John J. Brown,	Dunmore,	D., L. & W.
Staples and Bell, Inc., and Dexter and Carpenter, Inc. Grassy-Island Washery,	Lackawanna,	W. O. Staples,	Scranton,	H. J. Mulherin,	Olyphant,	Delaware & Hudson.
John J. Boland Coal Co. Boland,	Lackawanna,	John J. Boland,	Dunmore,			Erie.

†† In 1st District previous to February 1919.
†Operated by Moosic Mountain Coal Co. prior to July, 1919; in 1st District in 1918.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Pennsylvania Coal Co.												
Pennsylvania No. 1,	Lackawanna,	741,641	17,660	2,527	761,828	291	1,183	3	9	681,225	27,350	23,953
Underwood,		441,400	28,527	4,681	474,608	295	886	3	2	353,950	81,652	----------
Totals,		1,183,041	46,187	7,208	1,236,436	-------	2,069	6	11	1,035,175	109,002	23,953
Delaware, Lackawanna and Western Railroad Co.,												
Storrs,	Lackawanna,	807,779	42,682	24,382	874,843	294	1,662	5	27	1,044,600	31,380	70,262
Hudson Coal Co.												
Olyphant,	Lackawanna,	752,394	70,452	22,200	845,046	288	1,461	5	18	799,450	----------	87,768
Olyphant Washery,		255	40	----------	295	§	††	-------	-------	----------	----------	----------
Totals,		752,649	70,492	22,200	845,341	-------	1,461	5	18	799,450	----------	87,768
Scranton Coal Co.												
Johnson,	Lackawanna,	169,534	62,852	3,818	236,204	242	527	1	3	57,500	19,100	----------
Richmond No. 3,		47,218	20,690	2,627	70,535	170	277	1	1	77,500	31,200	----------
Totals,		216,752	83,542	6,445	306,739	-------	804	2	4	135,000	50,300	----------

§Not reported.
††Included with Olyphant Colliery.

Quinn Coal Co													
No. 6,	Lackawanna,	6,727			6,727	140	45		3			3,000
No. 6 Washery,		112,716			112,716	††	55					
Totals,		119,443			119,443		100		3			3,000
Mount Jessup Coal Co., Limited.													
Mount Jessup No. 1,†	Lackawanna	80,460	1,365	615	82,440	217	317			31,475	42,910	5,820
Nay-Aug Coal Co.													
Nay-Aug,	Lackawanna	66,000	1,053		67,053	273	153		1	6,175	6,928	
Spencer Coal Co.													
Spencer,	Lackawanna	46,217		4,041	50,258	280	170		3	9,875	17,515	
Bald Mountain Coal Co.													
Marshwood,	Lackawanna	37,207	634	329	38,170	185*	110	3		2,375	31,000	
Carney and Brown Coal Co.													
Carney and Brown,	Lackawanna	26,593	250	2,327	29,170	242	70			150,000	3,400	
Staples and Bell, Inc., and Dexter and Carpenter, Inc.													
Grassy Island Washery,	Lackawanna	22,586			22,586	140	64					
John J. Boland Coal Co.													
Boland,	Lackawanna	5,974	600	2,075	8,649	287	14			300	450	
Grand totals,		3,364,701	246,805	69,622	3,681,128		6,994	21	67	3,214,425	292,885	190,803

†In 1st District previous to February, 1919.
*Coal prepared at Mount Jessup No. 1 breaker.
††Not reported

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant: Boilers: Cylindrical: Number	Power plant: Boilers: Cylindrical: Total horse power	Power plant: Boilers: Tubular: Number	Power plant: Boilers: Tubular: Total horse power	Power plant: Engines: Steam engines (all classes): Number	Power plant: Engines: Steam engines (all classes): Total horse power	Power plant: Engines: Internal combustion engines (gas): Number	Power plant: Engines: Internal combustion engines (gas): Total horse power	Power plant: Engines: Electric dynamos (all classes): Number	Power plant: Engines: Electric dynamos (all classes): Total kilowatts	Pumps: Total number	Pumps: Total capacity in gallons per minute	Pumps: Pumps delivering water to surface: Number	Pumps: Pumps delivering water to surface: Approximate number of gallons per minute	Haulage: Horses and mules	Haulage: Locomotives: Gasoline	Haulage: Locomotives: Steam	Haulage: Locomotives: Air	Haulage: Locomotives: Electric	Air compressors: Number	Air compressors: Total capacity in cubic feet per minute.
Pennsylvania Coal Co.,	Lackawanna			24	5,850	30	5,250			3	2,250	42	11,260	7	3,500	52				66	1	1,100
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna			14	3,110	16	3,580			4	3,350	25	6,300	4	3,000	39		7		32	4	650
Hudson Coal Co.,	Lackawanna			18	6,790	73	10,396			5	4,200	28	15,205	3	800	63		9	7	24	5	3,050
Scranton Coal Co.,	Lackawanna			19	3,270	41	9,695			5	411	40	21,288	10	6,662	103		4		4	2	300
Quinn Coal Co.,†	Lackawanna																					
Mount Jessup Coal Co., Limited,	Lackawanna											5	2,300	2	1,000	21		1				
Nay-Aug Coal Co.,	Lackawanna			3	240					13	320					25						
Spencer Coal Co.,	Lackawanna			2	300							3	1,000	1	50	13					1	300
Bald Mountain Coal Co.,	Lackawanna											3	1,200			12		1			1	100
Carney and Brown Coal Co.,	Lackawanna			4	480	3	250									13						
John J. Boland Coal Co.,	Lackawanna			1	40	1	35					4										
Totals,				85	20,080	164	29,206			30	10,531	150	58,553	27	15,012	341		22	7	126	14	5,500

†Power furnished by Scranton Electric Co.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Pennsylvania Coal Co.,	Lackawanna,	7	15	2	565	407	7	28	65	66	36	44	9	29	12	17	8	209	1,526
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	4	29	-----	482	398	63	16	35	48	29	38	13	21	9	11	20	152	1,368
Hudson Coal Co.,	Lackawanna,	2	14	14	374	329	1	3	28	25	112	6	-----	3	6	2	29	179	1,127
Scranton Coal Co.,	Lackawanna,	3	3	6	207	104	-----	1	4	-----	79	8	3	33	20	1	7	75	534
Quinn Coal Co.,	Lackawanna,	1	1	-----	26	14	-----	-----	-----	-----	3	-----	-----	-----	-----	-----	-----	-----	45
Mount Jessup Coal Co., Limited,	Lackawanna,	1	2	-----	89	74	-----	-----	-----	-----	33	5	-----	-----	6	-----	5	19	234
Nay-Aug Coal Co.,	Lackawanna,	1	2	-----	42	43	-----	-----	2	-----	15	2	-----	1	-----	-----	-----	-----	108
Spencer Coal Co.,	Lackawanna,	1	1	1	44	45	-----	-----	5	-----	12	2	2	2	2	1	-----	25	143
Bald Mountain Coal Co.,	Lackawanna,	1	-----	-----	39	20	-----	-----	-----	-----	12	1	1	9	3	-----	1	5	92
Carney and Brown Coal Co.,	Lackawanna,	1	2	-----	14	13	-----	-----	-----	-----	6	2	-----	3	-----	-----	-----	3	44
Staples and Bell, Inc., and Dexter and Carpenter, Inc.,	Lackawanna,	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
John J. Boland Coal Co.,	Lackawanna,	1	-----	-----	4	4	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	10
Totals,	-----	23	66	23	1,886	1,451	71	48	139	139	338	108	28	81	58	32	70	667	5,231

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Pennsylvania Coal Co.,	Lackawanna,	2	2	7	51	46	24	5	77	15	9	305	543	2,079
Delaware, Lackawanna and Western Railroad Co.,		1	2	9	33	39	3	2	37	5	5	158	294	1,662
Hudson Coal Co.,		1	4	9	7	42	22	1	-------	42	22	184	334	1,461
Scranton Coal Co.,		1	2	8	12	63	7	2	49	21	2	103	270	804
Quinn Coal Co.,		1	1	1	2	-------	2	-------	2	4	1	41	55	100
Mount Jessup Coal Co., Limited,		1	1	2	7	6	2	2	12	1	2	47	83	317
Nay-Aug Coal Co.,		1	1	1	1	2	1	-------	4	1	2	31	45	153
Spencer Coal Co.,		1	1	1	2	2	1	-------	-------	-------	2	17	27	170
Bald Mountain Coal Co.,		1	1	1	3	2	1	-------	-------	-------	1	8	18	110
Carney and Brown Coal Co.,		1	1	1	-------	4	-------	-------	8	-------	1	10	26	70
Staples and Bell, Inc., and Dexter and Carpenter, Inc.,		1	2	1	4	-------	1	-------	-------	-------	-------	55	64	64
John J. Boland Coal Co.,		1	-------	-------	-------	1	-------	-------	1	-------	-------	1	4	14
Totals,		13	18	41	122	207	64	12	190	89	47	960	1,763	6,944

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals.
Pennsylvania Coal Co.,	Lackawanna	29	15	18	24	27	24	26	26	26	26	25	27	293
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna	27	19	19	26	27	26	27	27	19	27	24	26	294
Hudson Coal Co.,	Lackawanna	23	24	26	22	25	23	26	26	18	26	26	23	288
Scranton Coal Co.,	Lackawanna	18	15	12	18	18	16	19	18	19	19	15	19	206
Quinn Coal Co.,	Lackawanna	26	14	----	----	----	----	----	----	25	26	25	24	140
Mount Jessup Coal Co., Limited,	Lackawanna	24	13	----	----	9	23	25	25	24	26	23	25	217
Nay-Aug Coal Co.,	Lackawanna	26	16	12	19	26	24	25	25	25	26	24	25	273
Spencer Coal Co.,	Lackawanna	26	19	17	24	26	24	21	26	24	24	24	25	280
Bald Mountain Coal Co.,	Lackawanna	16	2	----	----	9	13	26	25	24	26	21	23	185
Carney and Brown Coal Co.,	Lackawanna	22	17	16	17	23	22	24	22	21	22	18	18	242
John J. Boland Coal Co.,	Lackawanna	23	21	23	23	25	24	24	25	25	26	24	24	287

TABLE 4.—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	8	Joseph Graboski,	Polish,	Doorboy,	17	S			Storrs,		Crushed by derailed car on gangway road.
	21	David Henry,	American,	Miner,	40	M	1	5	Johnson,		Premature blast at face of chamber—ramming cartridge into small hole.
	27	Gervase Colleran,	American,	Motor brakeman,	18	S			Olyphant,		Crushed under motor on gangway road—running to open door.
Feb.	1	Austin Gilmartin,	American,	Footman,	17	S			Marshwood,		Caught between bumpers of cars at foot of shaft.
	3	Joseph Dudurka,	Polish,	Motor reel boy,	19	S			Stoors,		Thrown from runaway motor and crushed between motor and gob on counter heading.
	6	Branislaw Gerulski,	Polish,	Miner,	45	M	1	3	Penna. No. 1,		Fall of roof near face of chamber.
	24	Robert Smith,	American,	Miner's laborer,	45	M	1	9	Olyphant,		Fall of roof at face of chamber while loading car.
Mar.	27	John Gilder,	Slavonian,	Miner's laborer,	33	M.	1	6	Underwood,		Fall of roof at face of chamber.
April	12	Frank Poor,	Magyar,	Companyman,	56	S.			Underwood,		Run over by trip of loaded cars on branch at foot of slope, while cleaning road.
May	10	John Harris,	Polish,	Driver,	18	S.			Richmond, No. 3,	Lackawanna,	Squeezed between car and concrete wall on gangway—jumped on moving car.
	19	James Harmon,	Welsh,	Miner,	56	M.	1	2	Storrs,		Flying coal from blast at face of gangway—retreating.
July	23	Tony Frank,	Italian,	Miner's laborer,	24	S.			Penna. No. 1,		Fall of roof at face of airway while loading car.
	24	Joseph Lelac,	Russian,	Miner,	31	M.	1	3	Underwood,		Fall of roof on main haulage road while cleaning after a fall.
Aug.	4	Martin McLane,	Irish,	Miner,	53	M.	1		Storrs,		Delayed rock blast at face of chamber.
	10	Thomas Beaver,	Italian,	Machinist,	37	M.	1	4	Penna. No. 1,		Crushed under motor that he was running into motor-pit.
Sept.	30	Adam Smalley,	American,	Motor brakeman,	18	S.			Olyphant,		Crushed under motor while throwing switch.
		Louis Roman,	Italian,	Laborer,	29	M.	1	4	Olyphant,		Caught on revolving shaft operating railroad car mechanical loader. Outside.
Nov.	29	Fred Orsini,	Italian,	Miner,	22	S.			Marshwood,		Flying coal from blast at face of pillar—tamping.
		Julio Orsini,	Italian,	Miner's laborer,	57	M.	1	3			
Dec.	16	Walter Kollotu,	Russian,	Miner,	39	M.	1	2	Storrs,		Fall of roof at face of chamber.
	29	Thomas Hodgson,	English,	Compressorman,	45	M.	1	3	Olyphant,		Explosion of air compressor. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date		Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan.	3	Stanley Anuskevicz,	Polish,	Laborer,	50	M.	Storrs,	Lackawanna	Caught between bumpers of mine cars. Outside.
	8	Alexander Graboski,	Polish,	Laborer,	43	M.	Storrs,		Struck by timber that rolled off truck. Outside.
	11	Samuel Sellercim,	Italian,	Miner's laborer,	45	S.	No. 6,		Fall of roof at face of pillar.
	17	Walter Kalta,	Polish,	Miner,	34	M.	Storrs,		Flying coal from blast—retreating.
	21	Charles Santiero,	American,	Headman,	21	S.	Spencer,		Falling under cars on slope.
	23	John Yuicki,	Polish,	Miner's laborer,	33	M.	Storrs,		Caught between coal buggy and rail in buggy place.
	27	Bakupe Malicz,	Austrian,	Miner,	29	M.	Olyphant,		Derailed car at face of chamber.
	29	James Ready,	Irish,	Miner,	55	M.	Olyphant,		Fall of roof at face of chamber.
	31	Richard Creese,	Welsh,	Trackman,	34	M.	Storrs,		Fall of roof in return air course.
Feb.	8	Thomas Jordon,	American,	Carpenter,	30	S.	No. 6,		Tripped on piece of iron and fell. (Outside).
	14	Thomas Parry,	Welsh,	Mine foreman,	47	M.	Storrs,		Struck by timber that fell off car.
	28	Anthony Oleanyots,	Austrian,	Miner,	37	M.	Olyphant,		Lifting derailed car.
Mar.	13	Thomas Thornton,	English,	Miner,	45	M.	Pennsylvania No. 1,		Fall of roof at face of slope heading.
	18	Nicholas Pettrochko,	Austrian,	Loco. brakeman,	19	S.	Olyphant,		Caught between bumpers of car and locomotive.
		George Labosky,	Russian,	Loco. brakeman,	21	S.	Olyphant,		Struck by rail used for pushing cars.
Mar.	26	George Lynch,	American,	Loco. brakeman,	18	S.	Pennsylvania No. 1,		Caught between car and rib.
	27	Joseph Labuda,	American,	Laborer,	20	S.	Olyphant,		Caught in jig shaft. Outside.
April	10	William Harvey,	American,	Machine runner,	36	S.	Storrs,		Fall of roof at face of chamber—operating coal-cutting machine.
	19	Anthony Futio,	Italian,	Miner,	40	M.	Pennsylvania No. 1,		Burned by powder ignited while testing blasting tube with squib.
	26	Peter Chick,	Italian,	Laborer,	22	S.	Storrs Washery,		Caught in jig shaft. Outside.
	29	Louis Gifalco,	Italian,	Mason,	50	M.	Pennsylvania No. 1,		Struck by car while building door.
	30	Fablan Yauchofski,	Polish,	Miner's laborer,	50	M.	Storrs,		Handling piece of coal—infection.
May	6	Joseph Washo,	American,	Bratticeman,	30	S.	Storrs,		Fall of roof in chamber.
	8	Alfred Peddley,	American,	Miner's laborer,	56	M.	Storrs,		Fall of roof in cross-cut.
	10	John Walsh,	American,	Laborer,	32	M.	Olyphant,		Fall of roof on main road.
	22	Bennie Wyther,	Polish,	Miner,	27	M.	Pennsylvania No. 1,		Struck by motor on main haulage road on way to work.
June	3	David Evans,	Welsh,	Miner,	48	M.	Storrs,		Flying piece of coal while cutting hitch for timber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
June 4	James Heenan,	American,	Carpenter,	44	S.	No. 6,	Lackawanna	Falling off scaffold while repairing pump-house. Outside.
9	Frank Nick,	Italian,	Miner's laborer,	35	S.	Underwood,		Flying coal from blast.
11	Arthur L. Davis,	American,	Miner's laborer,	44	M.	Olyphant,		Flying coal from blast.
14	Joseph Decker,	Polish,	Miner's laborer,	31	M.	Storrs,		Lifting rock to gob.
21	Michael McHale,	Irish,	Miner,	50	S.	Spencer,		Fall of roof at face of pillar.
	William Davis,	Welsh,	Miner,	39	S.	Storrs,		Carrying mine prop.
26	James Dempsey,	American,	Driver boss,	37	M.	Olyphant,		Caught by rope against drum roller on plane.
	Andrew Dezondezck,	Polish,	Laborer,	30	S.	Storrs,		Caught by falling motor in breaker when rope broke. Outside.
July 2	Paul Gllinsky,	Polish,	Doorman,	55	M.	Pennsylvania No. 1,		Struck by trip of cars.
3	John Tomko,	Austrian,	Miner,	30	M.	Johnson,		Delayed rock blast.
9	Joseph Turofsky,	Polish,	Miner,	51	M.	Johnson,		Piece of rock falling from gob.
15	Patrick Nalty,	Irish,	Miner,	55	M.	Storrs,		Fall of roof at face of chamber.
16	Jacob Stecknick,	Polish,	Miner's laborer,	42	M.	Storrs,		Fall of top coal at face of chamber.
26	Charles Kuk,	Polish,	Miner,	34	M.	Olyphant,		Flying piece of coal while working at face.
27	Michael McClain,	Scotch,	Miner,	39	M.	Storrs,		Cut by piece of rock—infection.
Aug. 2	William Anderson,	Italian,	Miner,	35	M.	Spencer,		Flying piece of coal—infection.
12	Frank VanDuzer,	American,	Laborer,	61	M.	Olyphant,		Struck by cylinder-head that flew off air pump.
	Joseph Lahey,	Irish,	Pumpman,	40	M.	Richmond No. 3,		Falling off platform in shaft.
13	Frank Stieler,	German,	Bratticeman,	34	M.	Storrs,		Fall of rib rock on gangway.
18	William Donovan,	Irish,	Miner,	52	M.	Storrs,		Burned by powder ignited by gas coming into contact with lamp at face of airway.
27	Frank Orlewski,	Polish,	Miner's laborer,	24	S.	Pennsylvania No. 1,		Struck by car at face of chamber.
Sept. 22	Andrew Granceay,	Austrian,	Miner,	51	M.	Olyphant,		Flying coal from blast.
25	Patrick Cuff,	American,	Motor brakeman,	40	M.	Pennsylvania No. 1,		Struck by car replacer.
26	John Purcell,	Polish,	Miner,	38	M.	Storrs,		Fall of top coal at face of chamber.
Oct. 14	Bennie Wilcha,	American,	Driver,	19	S.	Olyphant,		Caught between car and motor.
16	Thomas Hamela,	American,	Driver,	18	S.	Olyphant,		Mule stepped on him.
18	John Zigmond,	Lithuanian,	Miner,	56	M.	Storrs,		Burned by gas at face of abandoned chamber.
25	Frank Savage,	Polish,	Miner,	51	M.	Storrs,		Struck by car at face of chamber.
	William Kane,	Irish,	Miner's laborer,	36	S.	Pennsylvania No. 1,		Fall of roof at face of chamber.

Oct.	28	Thomas Thomas,	Welsh,	Assistant foreman,	47	M.	Storrs,	Lackawanna	Struck by car at foot of slope.
		Alex. Nicknadovitch,	Russian,	Miner,	43	M.	Johnson,		Flying coal from blast.
Nov.	5	William Fairclough,	American,	Machinist,	44	M.	Storrs,		Lifting while placing wheel in breaker. Outside.
	7	Lafayette Doyle,	American,	Timberman,	30	M.	Storrs,		Burned by gas while taking down brattice.
	29	Frank Macaravage,	Russian,	Miner,	39	S.	Nay-Aug,		Fall of roof at face of pillar piece.
Dec.	1	Alexander Bellas,	Austrian,	Car loader,	33	M.	Storrs,		Ran cars against plank walk. Outside.
	4	Frank Galkofsky,	Polish,	Miner,	33	M.	Olyphant,		Fall of top coal at face of chamber.
	10	Mitchell Popson,	Slavonian,	Miner,	52	M.	Olyphant,		Fall of rock at face of chamber.
	23	James McHale,	American,	Miner's laborer,	46	S.	Olyphant,		Fall of roof near face of heading.
		Julian Yhliozko,	Russian,	Miner,	40	M.	Underwood,		Flying coal from blast.
	29	David Burgess,	English,	Miner,	48	M.	Olyphant,		Fall of top coal at face of chamber.

MINE FOREMEN'S EXAMINATIONS.

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Scranton, May 6 and 7. The Board of Examiners was composed of D. T. Williams, Mine Inspector, Scranton; Joseph P. Jennings, Superintendent, Moosic; James W. Reese, Miner, and William J. Jenkins, Miner, Scranton.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN.

Frederick William Seamon, John Rees Davis, Arthur L. Sekol, Frank Lewis, Henry Wilbur Day, James J. O'Malley, Henry Charles Thorpe, William J. Lewis, Scranton; Thomas L. Williams, Frederick White, Rhys Edward Carter, Edward Griffiths, Willard Gilbert Ward, James B. Dempsey, James C. Dolphin, Frank Sweeney, Olyphant; John Thomas Stephens, John Watkin Taylor, Jr., Thomas Parry, Peckville; Alexander Jones, William Thomas Taylor, George Stewart, Charles Simpson Wilson, Thomas H. Logan, William Baird Logan, Dunmore; William J. May, Underwood Village; Richard Tratthen, Throop; Nathaniel Vaughn, Clarence Edward Calvert, Joseph Henry Honney, Blakely; John J. Walsh, Archbald.

ASSISTANT MINE FOREMEN.

John Patrick Foley, Scranton; Thomas Douthwaite, Mayfield.

1919

SEVENTH DISTRICT

Lackawanna and Luzerne Counties

Augustus McDade, Inspector, Taylor

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	2
Mines in district,	21
Gaseous mines in operation,	11
Non-gaseous mines in operation,	10
Tons of coal shipped to market,	2,291,937
Tons used at mines for steam and heat,	209,202
Tons sold to local trade and used by employes,	49,490
Tons produced (gross),	2,550,629
Tons produced by electrical machines,	106,181
Persons employed inside,	4,437
Persons employed outside,	1,280
Persons employed inside between 16 and 21 years,	261
Persons employed outside between 14 and 21 years,	359
Fatal accidents inside,	17
Fatal accidents outside,	1
Serious non-fatal accidents inside,	36
Serious non-fatal accidents outside,	3
Tons produced per fatal accident inside	150,037
Tons produced per fatal accident inside and outside,	141,702
Persons employed per fatal accident inside,	261
Persons employed per fatal accident outside,	1,280
Persons employed per fatal accident inside and outside,	318
Persons employed per non-fatal accident inside,	123
Persons employed per non-fatal accident outside,	427
Persons employed per non-fatal accident inside and outside,	147
Wives made widows,	13
Children made orphans,	38
Steam locomotives outside,	9
Electric motors inside,	96
Electric motors outside,	1
Tubular boilers,	90
Steam engines of all classes,	127
Electric dynamos,	7

Pumps of all classes,	119
Pumps delivering water to surface,	29
Air compressors,	5
Fans in use,	15

TABLE A

PRODUCTION OF COAL

Operators.	Gross Tons.
Delaware, Lackawanna and Western Railroad Company,	1,168,783
Pennsylvania Coal Company,	838,268
Jermyn and Company,	219,909
Hudson Coal Company,	166,523
Hillside Coal and Iron Company,	121,861
Scranton-Taylor Coal Company,	27,698
Dennington Coal Company,	7,587
Total,	2,550,629

Production by Counties

Lackawanna,	1,813,672
Luzerne,	736,957
Total,	2,550,629

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Delaware, Lackawanna and Western Railroad Co.,	8	1	9	27	2	29	146,098	43,288	1,727	401	2,128	216	401	64	203
Pennsylvania Coal Co.,	4	------	4	5	1	6	209,567	167,654	1,566	476	2,042	392	----------	313	476
Jermyn and Co.,	1	------	1	------	------	------	219,909	----------	580	156	736	580	----------	----------	----------
Hudson Coal Co.,	1	------	1	4	------	4	166,523	41,631	336	90	426	336	----------	84	----------
Hillside Coal and Iron Co.,	3	------	3	------	------	------	40,620	----------	228	106	334	76	----------	----------	----------
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	----------	51	51	----------	----------	----------	----------
Totals and averages,	17	1	18	36	3	39	150,037	70,851	4,437	1,280	5,717	261	1,280	123	427

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and collieries	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Delaware, Lackawanna and Western Railroad Co.									
Taylor,	Lackawanna	C or Clark,	78	Shaft,	Gaseous,	10		96,777	
Pyne,	Lackawanna	B or Dunmore,	51	Shaft,	Gaseous,	1		9,404	
Pennsylvania Coal Co.*									
Totals,						11		106,181	

*Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post Office	Superintendent	Post Office	Railroad to mine
Delaware, Lackawanna and Western Railroad Co.						
Taylor,	Lackawanna,	W. W. Inglis, General Manager	Scranton,	John R. James,	Scranton,	D., L. & W.
Pyne,	Lackawanna,			Harry Smith,	Scranton,	
Hallstead,	Luzerne,			J. D. Thompson (Outside),	Duryea,	
Pennsylvania Coal Co.						
Old Forge,	Lackawanna,	Joseph P. Jennings,	Scranton,	W. D. Jones,	Duryea,	Erie,
Central,	Luzerne,			John N. Cooke,	Old Forge,	
				P. H. O'Brien,	Avoca,	
Jermyn and Co.						
Jermyn,	Lackawanna,	J. J. Jermyn,	Scranton,	J. P. Corcoran,	Old Forge,	Erie; D., L. & W.
Hudson Coal Co.						
Langcliffe,	Luzerne,	R. H. Buchanan,	Scranton,	J. M. Hicks,	Scranton,	D. & H.
Hillside Coal and Iron Co.						
Consolidated,	Luzerne,	Joseph P. Jennings,	Scranton,	John B. Jones,	Moosic,	Erie,
Scranton-Taylor Coal Co.						
Washery,	Lackawanna,	S. J. McDonald,	Scranton,			D. L. & W.
Dennington Coal Co.						
Washery,	Lackawanna,	E. B. Jermyn,	Scranton,	John P. Corcoran,	Old Forge,	Erie,

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (Gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Delaware, Lackawanna and Western Railroad Co.												
Taylor,	Lackawanna,	481,514	54,591	13,060	549,165	273	969	5	21	366,925	----------	50,585
Pyne,	Lackawanna,	367,764	34,286	1,829	433,879	262	803	2	4	382,825	----------	14,520
Hallstead,	Luzerne,	162,822	20,358	2,559	185,739	281	356	2	4	12,700	500	134,000
Totals,		1,042,100	109,235	17,448	1,168,783	--------	2,128	9	29	762,450	500	199,105
Pennsylvania Coal Co.												
Old Forge,	Lackawanna,	535,685	39,624	125	575,424	286	1,432	3	5	299,550	5,500	148,960
Central,	Luzerne,	240,015	15,766	7,053	262,834	287	610	1	1	291,975	----------	14,246
Totals,		775,700	55,390	7,178	838,268	--------	2,042	4	6	591,525	5,500	163,206
Jermyn and Co.												
Jermyn,	Lackawanna,	179,423	30,245	10,241	219,909	153	736	1	--------	121,025	95,062	----------
Hudson Coal Co.												
Langcliffe,	Luzerne,	155,914	6,864	3,745	166,523	278	426	1	4	177,500	1,448	54,954
Hillside Coal and Iron Co.												
Consolidated,	Luzerne,	103,515	7,468	10,878	121,861	296	334	3	--------	133,925	----------	12,979
Scranton-Taylor Coal Co.												
Washery,	Lackawanna,	27,698	----------	----------	27,698	166	29	----	--------	----------	----------	----------
Dennington Coal Co.												
Washery,	Lackawanna,	7,587	----------	----------	7,587	22	22	----	--------	----------	----------	----------
Grand Totals,		2,291,937	209,202	49,490	2,550,629	--------	5,717	18	39	1,786,425	103,110	430,244

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface		Locomotives						
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna, Luzerne,	----	----	27	4,820	26	3,272	----	----	----	----	36	25,150	8	14,100	90	----	1	----	48	2	1,005
Pennsylvania Coal Co.,	Lackawanna, Luzerne,	----	----	42	4,800	56	3,700	----	----	5	1,800	51	27,500	15	18,000	56	----	5	----	44	1	1,500
Jermyn and Co.,	Lackawanna,	----	----	4	2,100	25	1,960	----	----	1	50	16	8,900	3	6,500	52	----	----	----	2	1	1,500
Hudson Coal Co.,	Luzerne,	----	----	5	610	17	1,342	----	----	1	150	9	4,070	3	1,200	57	----	----	----	3	----	----
Hillside Coal and Iron Co.	Luzerne,	----	----	12	900	20	1,100	----	----	----	----	7	2,000	----	----	37	----	3	----	----	1	1,100
Scranton-Taylor Coal Co.†	Lackawanna,	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dennington Coal Co., ††	Lackawanna,	----	----	----	----	3	60	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Totals,		----	----	90	13,240	127	11,434	----	----	7	2,000	119	67,620	29	39,900	292	----	9	----	97	5	5,105

†Power furnished by Scranton Electric Co.
††Power furnished by Jermyn and Co.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rock men	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Delaware, Western Railroad Co.,	Lackawanna, Luzerne,	4	27	------	532	573	8	10	48	49	50	43	13	17	20	12	27	294	1727
Pennsylvania Coal Co.,	Lackawanna, Luzerne,	8	15	------	675	508	------	3	44	44	30	40	3	24	9	15	15	133	1566
Jermyn and Co.,	Lackawanna,	3	3	9	215	200	------	------	------	------	74	16	------	8	12	1	2	37	580
Hudson Coal Co.,	Luzerne,	1	1	1	133	133	------	------	3	------	36	1	------	7	4	2	------	14	336
Hillside Coal and Iron Co.,	Luzerne,	2	1	------	154	27	------	------	------	------	23	4	------	------	------	------	------	17	228
Scranton-Taylor Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Dennington Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals,		18	47	10	1,709	1,441	8	13	95	93	213	104	16	56	45	30	44	495	4,437

TABLE 3.—PART 1.—Number of each class of employes inside and outside—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna, Luzerne,	1	3	7	43	37	4	-------	84	-------	8	214	401	2128
Pennsylvania Coal Co.,	Lackawanna, Luzerne,	2	2	5	43	39	15	14	74	1	8	273	476	2042
Jermyn and Co.,	Lackawanna,	2	1	4	8	18	3	2	19	11	8	80	156	736
Hudson Coal Co.,	Luzerne,	1	3	3	7	8	-------	-------	2	8	5	53	90	426
Hillside Coal and Iron Co.,	Luzerne,	1	1	1	7	17	3	2	18	5	1	50	106	334
Scranton-Taylor Coal Co.,	Lackawanna,	1	-------	-------	2	1	-------	-------	-------	-------	1	24	29	29
Dennington Coal Co.,	Lackawanna,	2	1	-------	-------	3	1	-------	-------	-------	2	13	22	22
Totals,		10	11	20	110	123	26	18	197	25	33	707	1,280	5,717

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	25	15	16	24	26	24	26	26	20	25	22	23	272
	Luzerne,	26	15	18	25	26	25	26	26	25	26	23	26	287
Pennsylvania Coal Co.,	Lackawanna,	20	6	9	--------	--------	--------	10	20	21	22	21	24	153
	Luzerne,													
Jermyn and Co.,	Lackawanna,	23	22	24	23	24	24	24	22	22	25	21	24	278
Hudson Coal Co.,	Luzerne,													
Hillside Coal and Iron Co.,	Luzerne,	26	17	25	24	26	25	26	26	25	26	24	26	296

TABLE 4.—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	3	John Koslofski,	Russian.	Doorboy,	16	S.			Hallstead,	Luzerne,	Cars on gangway.
	8	Philip Mazur,	American,	Driver,	17	S.			Langcliffe,	Luzerne,	Motor on gangway, passing branch.
	29	John McCrone,	American,	Runner,	33	M.	1	4	Consolidated.	Luzerne,	Fall of roof on slope.
Mar.	10	William Stewart,	American,	Miner's laborer,	22	S.			Consolidated,	Luzerne,	Fall of roof at end of pillar.
	15	John Gellaspi,	American,	Miner,	55	M.	1	3	Consolidated,	Luzerne,	Premature blast while driving through pillar.
April	19	Nick Sabitlni,	Italian,	Motorman,	29	M.	1	3	Old Forge,	Lackawanna,	Squeezed between props and rib near foot of slope.
June	2	Charles Kurtina,	Lithuanian,	Miner,	54	M.	1	1	Old Forge,	Lackawanna,	Fall of top coal at end of pillar.
July	9	Stanley Macoskie,	Polish,	Miner,	33	M.	1	4	Old Forge.	Lackawanna,	Blast at face of chamber.
	26	Mike Patrila,	Polish,	Miner's laborer,	36	M.	1	4	Taylor,	Lackawanna,	Fall of roof at end of pillar.
Aug.	16	John Martin,	Polish,	Driver,	18	S.			Jermyn,	Lackawanna,	Car falling down shaft.
	19	Andrew Stephanko,	Slavonian,	Miner,	39	M.	1	5	Taylor,	Lackawanna,	Fall of top coal at face of chamber.
Sept.	19	Ignatz Roscoski,	Polish,	Miner,	28	M.	1	3	Pyne,	Lackawanna,	Fall of coal on counter gangway.
	20	Charles Balincoski,	Polish,	Miner,	34	M.	1	3	Taylor,	Lackawanna,	Premature blast at face of cross-cut.
Oct.	11	Charles Kuryluk,	Russian,	Miner's laborer,	31	M.	1	2	Pyne,	Lackawanna,	Fall of roof near face of chamber.
	28	Francis Barrett,	American,	Doorboy,	16	S.			Central,	Luzerne,	Motor on gangway.
Nov.	13	John Jacobs,	American,	Sub-electrical foreman,	43	M.	1	3	Taylor,	Lackawanna,	Electrocuted at supply shaft engine house. Outside.
Dec.	6	Leon Yancouski,	Polish,	Miner's laborer,	28	M.	1		Hallstead,	Luzerne,	Fall of roof at head of plane.
	12	George Roman,	Slavonian,	Miner's laborer,	44	M.	1	3	Taylor,	Lackawanna,	Fall of roof at side of pillar.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 4	Hugh Grahamm,	American,	Carpenter,	38	M.	Old Forge,	Lackawanna,	Falling from plank to breaker floor. Outside.
16	Thomas Thornton,	American,	Brakeman,	19	S.	Taylor,	Lackawanna,	Squeezed between prop and car on gangway.
18	Andrew Stefanko,	Slavonian,	Miner,	38	M.	Taylor,	Lackawanna,	Saw slipping while cutting prop at face.
20	George Semerick,	Slavonian,	Brakeman,	20	S.	Old Forge,	Lackawanna,	Squeezed between prop and car on gangway.
	John Garvin,	American,	Brakeman,	17	S.	Old Forge,	Lackawanna,	Squeezed between two cars on gangway.
29	Frank Karjeskie,	Russian,	Miner,	34	M.	Taylor,	Lackawanna,	Fall of roof at face.
Feb. 3	Frank Smith,	Polish,	Miner's laborer,	40	M.	Langcliffe,	Luzerne,	Cars on gangway.
6	George Bednor,	Austrian,	Miner,	47	M.	Taylor,	Lackawanna,	Falling at face of chamber.
21	George Panchacoski,	Polish,	Miner's laborer,	25	S.	Taylor,	Lackawanna,	Cars at face.
March 8	Samuel Heater,	American,	Pumpman,	46	M.	Langcliffe,	Luzerne,	Circular saw puncturing eye in pump room.
	Louis Zigilla,	Polish,	Ashman,	60	M.	Hal'stead,	Luzerne,	Falling near foot of shaft.
14	Joseph Phenick,	Italian,	Miner,	46	M.	Langcliffe,	Luzerne,	Fall of roof near face of chamber.
April 16	Thomas Dobbs,	American,	Miner,	43	M.	Pyne,	Lackawanna,	Fall of bone from rib at face.
18	Stanley Jacobs,	American,	Driver,	19	S.	Langcliffe,	Luzerne,	Cars on gangway.
19	Anthony Whitelash,	Polish,	Miner,	47	M.	Taylor,	Lackawanna,	Fall of bone from roof at face.
May 6	Stanley Farays,	American,	Miner,	30	M.	Hal stead,	Luzerne,	Fall of roof at face.
9	Frank Rock,	Polish,	Machine runner,	21	M.	Taylor,	Lackawanna,	Wire protruding from wire rope at face.
10	Edwin Jones,	Welsh,	Pillarman,	29	M.	Taylor,	Lackawanna,	Cars near foot of shaft.
12	August Wincavage,	Lithuanian,	Miner,	35	M.	Hal'stead,	Luzerne,	Stepping on nail near foot of shaft.
17	John Derinick,	American,	Miner's laborer,	24	M.	Taylor,	Lackawanna,	Falling prop near face of chamber.
26	Thomas Boland,	American,	Miner's laborer,	45	S.	Central,	Luzerne,	Fall of roof on gangway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)—Continued.

Date		Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
June	3	Mike Alanish,	Austrian,	Miner's laborer,	44	M.	Taylor,	Lackawanna,	Rock sliding from cave behind end of pillar.
	20	John Dieza,	Austrian,	Miner's laborer,	27	M.	Taylor,	Lackawanna,	Fall of roof at face.
		Charles Williams,	American,	Rock unloader,	56	M.	Pyne,	Lackawanna,	Struck by truck in chamber.
		Luther Harris,	American,	Miner's laborer,	44	S.			
July	11	Daniel Cushner,	Russian,	Miner's laborer,	27	S.	Taylor,	Lackawanna,	Fall of roof at face.
	18	Steve Gureulick,	Polish,	Miner's laborer,	33	S.	Taylor,	Lackawanna,	Fall of roof at face.
		Tony Gentilla,	Italian,	Miner,	46	M.	Old Forge,	Lackawanna,	Cars in chamber.
	26	Frank Osisis,	Austrian,	Miner's laborer,	50	M.	Taylor,	Lackawanna,	Fall of roof at face.
	28	Joseph Purbalski,	Polish,	Runner,	20	S.	Hallstead,	Luzerne,	Car on gangway road.
		Mike Kelena,	Russian,	Miner,	29	M.	Taylor,	Lackawanna,	Fall of roof at face.
	29	John Bolinski,	Slavonian,	Miner's laborer,	32	M.	Taylor,	Lackawanna,	Rock sliding from gob on back branch road.
Aug.	16	John Breshick,	American,	Carpenter,	26	S.	Taylor,	Lackawanna,	Pulley in washery. Outside.
	23	Mike Spitka,	Polish,	Road cleaner,	50	M.	Pyne,	Lackawanna,	Car on gangway.
Sept.	6	Henry King,	American,	Runner,	19	S.	Taylor,	Lackawanna,	Car at head of shaft. Outside.
	17	Stanley Moshalsh,	Austrian,	Miner's laborer,	45	M.	Taylor,	Lackawanna,	Fall of top coal at face.
Oct.	31	George Vilchuck,	Polish,	Miner's laborer,	20	S.	Old Forge,	Lackawanna,	Fall of roof at end of pillar.
Nov.	14	Michael Markovich,	Russian,	Miner's laborer,	18	S.	Taylor,	Lackawanna,	Piece of bone sliding from cave at end of pillar.
Dec.	2	Joseph Skubich,	Polish,	Miner's laborer,	26	S.	Taylor,	Lackawanna,	Car on gangway.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Old Forge, May 6 and 7. The Board of Examiners was composed of Augustus McDade, Mine Inspector, Rendham; John R. James, Superintendent, Scranton; Morgan E. Griffiths, Miner, Taylor; Michael Cosgrove, Miner, Old Forge.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN.

Frederick Kramer, Clarence Barbarevech, Duryea; Anthony Podrasky, William L. Willis, Rudolph Yagoda, Joseph Glynn, David Morgan, Stanley Casterline, John Colburn, John H. Rees, William D. Matthews, Old Forge; George Fox, Jr., Albert Williams, Lewis Williams, William Kehr, Benjamin J. Davis, William K. Frew, Douglas Green, Henry Coombs, Earl Dunlap, Arnold Frutiger, William Moses Williams, Ellsworth Evans, Daniel B. Hughes, Frederick P. James, Taylor; Edward J. Loftus, Nicholas Gabello, Pittston; Patrick A. Lane, Gordon Young, Lawrence A. McCarthy, Arthur Parker, Minooka; Willis K. Rees, Patrick G. Langan, Peter A. McHugh, Scranton; David T. Richards, Plymouth; William Kneebone, Harry Gilhooley, Edward Semmens, Joseph Edwin Davies, William J. Bell, Avoca; Ross H. Johnson, John Dale, Moosic.

ASSISTANT MINE FOREMEN

William Martin, Andrew Martin, Moosic; Louis Renda, Samuel Scavo, Daniel Schuback, Charles Charundo, John Chickey, William Kerrigan, Edward Scoda, Charles Croom, Alexander W. Regnoskey, Old Forge.

1919

EIGHTH DISTRICT

Luzerne County

Robert Johnson, Inspector, Pittston

SUMMARY OF STATISTICS

Collieries in operation, (breakers)	8
Washeries in operation,	1
Mines in district,	24
Gaseous mines in operation,	20
Non-gaseous mines in operation,	4
Tons of coal shipped to market,	3,711,601
Tons used at mines for steam and heat,	264,946
Tons sold to local trade and used by employes,	43,607
Tons produced, (gross)	4,020,154
Tons produced by electrical machines,	45,441
Persons employed inside,	6,960
Persons employed outside,	2,249
Persons employed inside between 16 and 21 years,	441
Persons employed outside between 14 and 21 years,	601
Fatal accidents inside,	20
Fatal accidents outside,	3
Serious non-fatal accidents inside,	31
Serious non-fatal accidents outside,	4
Tons produced per fatal accident inside,	201,008
Tons produced per fatal accident inside and outside,	174,789
Persons employed per fatal accident inside,	348
Persons employed per fatal accident outside,	750
Persons employed per fatal accident inside and outside,	400
Persons employed per non-fatal accident inside,	224
Persons employed per non-fatal accident outside,	562
Persons employed per non-fatal accident inside and outside,	263
Wives made widows,	17
Children made orphans,	49
Steam locomotives outside,	27
Electric motors inside,	180
Electric motors outside,	4
Tubular boilers,	137
Steam engines of all classes,	267
Electric dynamos,	24
Pumps of all classes,	191
Pumps delivering water to surface,	28
Air compressors,	14
Fans in use,	29

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Pennsylvania Coal Company,	2,912,161
Hillside Coal and Iron Company.	769,653
Hudson Coal Company,	288,340
Quinn Coal Company,	50,000
Total,	4,020,154

Production by Counties.

Luzerne,	4,020,154

TABLE B.—Accidents inside and outside of mines, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Pennsylvania Coal Co.,	17	3	20	22	4	26	171,304	132,371	5,274	1,647	6,921	310	549	240	412
Hillside Coal and Iron Co.,	3	------	3	4	------	4	256,551	192,413	1,201	461	1,662	400	----------	300	----------
Hudson Coal Co.,	------	------	------	5	------	5	----------	57,668	412	114	526	----------	----------	82	----------
Quinn Coal Co.,	------	------	------	------	------	------	----------	----------	73	27	100	----------	----------	----------	----------
Totals and averages,	20	3	23	31	4	35	201,008	129,682	6,960	2,249	9,209	348	750	224	562

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and Mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines: Electric	Mining machines: Compressed air	Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
Pennsylvania Coal Co.									
Number 14,	Luzerne,	Marcy,	60	Slope,	Gaseous,	3		*	
Number 9,	Luzerne,	Clark,	42	Shaft,	Gaseous,	4		33,717	
Barnum,	Luzerne,	Clark,	48	Shaft,	Gaseous,	2		11,724	
Totals,						9		45,441	
Hillside Coal and Iron Co.									
Butler,	Luzerne,	Stark,	37	Shaft,	Gaseous,	6		*	
		Red Ash,	60	Slope,	Non-gas.,	1		*	
Totals,						7			
Grand totals,						16		45,441	

*No record kept.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Pennsylvania Coal Co. Number 14, Number 6, Ewen, Number 9, Barnum,	Luzerne,	William P. Jennings,	Scranton,	Edgar Weichel, John Brown, Benjamin Milton, Thomas Huntley, Thomas Huntley,	Pittston,	Erie.
Hillside Coal and Iron Co. Butler,	Luzerne,	William P. Jennings,	Scranton,	J. C. Johnson,	Laflin,	Erie.
Hudson Coal Co. Laflin, Laflin Washery,	Luzerne,	R. H. Buchanan,	Scranton,	John B. T. Jones,	Avoca,	Delaware & Hudson
Quinn Coal Co. Pickaway,	Luzerne,	James J. Moore,	Dunmore,			Lehigh Valley.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (Gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Pennsylvania Coal Co.												
Number 14,	Luzerne,	692,274	46,028	7,400	745,702	304	1,758	3	7	744,350	----------	120,900
Number 6,	Luzerne,	579,839	29,015	12,123	620,977	287	1,595	4	5	726,450	----------	88,984
Ewen,	Luzerne,	538,392	47,597	1,263	587,252	283	1,511	4	6	610,575	----------	54,646
Number 9,	Luzerne,	706,864	48,816	10,418	766,098	307	1,651	6	8	681,225	49,432	29,032
Barnum,	Luzerne,	172,163	17,013	2,956	192,132	269	406	3	--------	76,050	----------	7,610
Totals,		2,689,532	188,469	34,160	2,912,161	--------	6,921	20	26	2,838,650	49,432	301,172
Hillside Coal and Iron Co.												
Butler,	Luzerne,	711,528	50,345	7,780	769,653	306	1,662	3	4	587,800	132,264	----------
Hudson Coal Co.												
Laflin,	Luzerne,	252,223	20,093	1,617	273,933	291	526	--------	5	207,825	52,484	20,101
Laflin Washery,	Luzerne,	10,368	4,039	----------	14,407	--------	--------	--------	--------	----------	----------	--------
Totals,		262,591	24,132	1,617	288,340	--------	526	--------	5	207,825	52,484	20,101
Quinn Coal Co.												
Pickaway,	Luzerne,	47,950	2,000	50	50,000	182	100	--------	--------	6,225	525	6,750
Grand totals,		3,711,601	264,946	43,607	4,020,154	--------	9,209	23	35	3,640,500	234,705	328,023

TABLE 2.—PART 2.—Number and kinds of boilers, engines, loco motives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Pennsylvania Coal Co.,	Luzerne,	----	--------	106	17,607	191	16,720	---	--------	17	5,260	141	57,960	23	24,700	425	----	19	----	143	10	5,790
Hillside Coal & Iron Co.,	Luzerne,	----	--------	19	4,000	44	4,400	---	--------	6	1,195	31	8,300	2	600	----	----	7	----	36	2	250
Hudson Coal Co.,	Luzerne,	----	--------	11	1,540	30	2,668	---	--------	1	300	18	6,255	3	1,100	72	----	1	----	5	2	1,900
Quinn Coal Co.,	Luzerne,	----	--------	1	75	2	150	---	--------	----	--------	1	100	----	--------	12	----	----	----	----	----	--------
Totals,		----	--------	137	23,222	267	23,938	---	--------	24	6,755	191	72,615	28	26,400	509	----	27	----	184	14	7,940

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																		
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Pennsylvania Coal Co.,	Luzerne,	18	40	40	1,972	1,319	32	10	138	138	384	145	40	123	47	38	85	705	5,274
Hillside Coal and Iron Co.,	Luzerne,	3	8	3	514	369	42	14	35	35	28	32	------	14	7	13	14	70	1,274
Hudson Coal Co.,	Luzerne,	1	8	------	277	31	------	------	5	1	41	13	------	------	2	1	2	30	412
Quinn Coal Co.,	Luzerne,	1	------	------	30	32	------	------	------	------	10	------	------	------	------	------	------	------	73
Totals,		23	56	43	2,793	1,751	74	24	178	174	463	190	40	137	56	52	101	805	6,960

TABLE 3.—PART 1.—Number of each class of employes inside and outside—Continued

Operators	County	Outside												Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	
Pennsylvania Coal Co.,	Luzerne,	4	7	23	147	154	70	6	2	28	17	986	1,647	6,921
Hillside Coal and Iron Co.,	Luzerne,	1	1	6	42	38	14	19		6	1	266	461	1,662
Hudson Coal Co.,	Luzerne,	1	4	3	5	14	1			20	5	61	114	526
Quinn Coal Co.,	Luzerne,	1	1	6	2	1		2		1	1	5	27	100
Totals,		7	13	38	196	207	85	27	[illegible]	55	24	1,318	2,249	9,209

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	Apr	May	June	July	August	September	October	November	December	Totals
Pennsylvania Coal Co.,	Luzerne,	27	16	18	25	25	25	27	27	25	26	24	25	290
Hillside Coal and Iron Co.,	Luzerne,	29	15	18	25	27	27	29	28	27	29	24	28	306
Hudson Coal Co.,	Luzerne,	27	22	27	24	24	26	25	25	19	26	22	24	291
Quinn Coal Co.,	Luzerne,	-------	-------	-------	-------	21	24	23	23	23	24	22	22	182

TABLE 4.—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphan	Colliery	County	Cause and location of accident
Feb.	17	Sandy Tavagalonee,	Italian,	Miner's laborer,	31	M.	1		Number 9,		Flying coal from blast that broke through heading.
Apr.	9	Sandy Alexander,	Italian,	Miner,	22	S.			Butler,		Fall of rock at face of chamber.
	16	Nazerone Paterna,	Italian,	Miner,	34	M.	1	2	Butler,		Fall of coal in stripping.
May	7	Frank Moran,	Irish,	Assistant mine foreman.	42	M.	1	5	Ewen,		Prop falling off car on road.
	14	Dominick Armone,	Italian,	Brakeman,	19	S.			Number 14,		Caught between car and motor on road.
June	3	Charles Martinitz,	Lithuanian	Miner,	43	S.			Butler,		Fall of roof at face of chamber.
	18	Joseph Koslokis,	Polish,	Miner's laborer,	34	M.	1	1	Barnum,		Fall of roof at face of chamber.
	26	William Bosco,	Polish,	Miner's laborer,	39	M.	1	6	Number 9,		Fall of roof at face of chamber.
		John Snyder,	American	Miner,	53	M.	1		Number 9,		Fall of roof at face of chamber.
		Peter Marchok,	Austrian,	Laborer,	39	M.	1	1	Ewen,	Luzerne,	Falling off railroad car. Outside.
July	8	Anthony Wenclow,	Lithuanian,	Miner,	50	M.	1	4	Number 9,		Struck by timber in chamber.
	17	Ignatus Giordana,	Italian,	Driver,	17	S.			Number 6,		Cars on gangway.
	19	Bolio Oleander,	Polish,	Miner,	30	M.	1	2	Barnum,		Fall of roof in chamber.
Aug.	2	Merele Shafer,	American	Laborer,	18	S.			Number 14,		Falling from a scaffold. Outside.
	22	James Castle,	Irish,	Miner,	38	M.	1	3	Ewen,		Fall of roof at face of chamber.
Sept.	3	Patrick Kilkennie,	Irish,	Miner,	43	M.	1	5	Number 9,		Fall of roof at face of chamber.
	15	Cataldo Ganando,	Italian,	Miner,	33	M.	1	2	Number 6,		Fall of roof at face of chamber.
Oct.	14	Joseph Connors,	Irish,	Driver,	17	S.			Ewen,		Hoisting machine on plane.
	22	Joseph Sperano,	Italian,	Miner,	33	M.	1	2	Number 6,		Explosion of blast in chamber.
Nov.	11	Thomas Cavalery,	Italian,	Miner,	43	M.	1	3	Barnum,		Fall of rock at face of pillar.
Nov.	20	Walter Tompkins,	American	Loader,	35	M.	1	2	Number 14,		Railroad cars under breaker. Outside.
Dec.	6	Sam Sparazzl,	Italian,	Miner,	44	M.	1	3	Number 9,		Burned by explosion of gas at face of chamber.
	9	Martin Savickinaz,	Lithuanian	Miner,	30	M.	1	3	Number 6,		Fall of coal at face of chamber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 6	Nick Powell,	Italian,	Miner's laborer,	50	M.	Butler,		Burned by explosion of powder in chamber.
13	Joseph Martinelli,	Italian,	Miner's laborer,	24	M.	No. 9,		Burned by explo ion of gas in chamber.
	Frank Daley,	American,	Miner,	51	M.			
	Manarona Ignazzio,	Italian,	Miner,	43	M.			
Feb. 1	George Stolen,	Lithuanian,	Miner,	38	M.	Laflin,		Fall of rock at face of chamber.
" 5	William Badden,	Irish,	Miner,	55	M.	Number 6,		Fall of rock at face of chamber.
6	Mike Conlon,	American,	Engineer,	42	M.	Number 6,		Falling in engine room Outside.
April 16	Patrick Malia,	American,	Brakeman,	19	M.	Ewen,		Caught between cars.
May 3	Andrew Kosiskie,	Slavonian,	Trackman,	37	M.	Number 14,		Cars on road.
17	James Donaldson,	Scotch,	Assistant mine foreman,	36	M.	Number 9,	Luzerne,	Kicked by mule.
22	Michael Wilcinsky,	Lithuanian,	Miner,	48	M.	Laflin,		Fall of rock.
June 3	Joseph Dluzey,	Polish,	Miner's laborer,	49	M.	Butler,		Fall of roof in chamber.
9	Daniel Bell,	American,	Laborer,	17	S.	Number 14,		Cars. Outside.
10	John Lukoth,	Slavonian,	Miner's laborer,	45	M.	Number 9,		Fall of roof in chamber.
24	Roy Bird,	American,	Driver,	18	S.	Ewen,		Struck by a block.
July 7	Joseph Landre,	Italian,	Miner,	38	M.	Number 14,		Fall of rock in chamber.
12	Dominick Boni,	Italian,	Miner,	29	S.	Laflin,		Struck by block falling from collar standing timber.
29	Joseph Moskes,	American,	Miner's laborer,	18	S.	Laflin,		Caught between cars.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Aug. 2	Angelo Medica,	Italian,	Miner,	32	M.	Number 6,	Luzerne,	Burned by explosion of gas in chamber.
5	John Challock,	Polish,	Miner,	39	M.	Number 9,		Cars.
14	Simon Shalmunick,	Polish,	Miner,	37	M.	Butler,		Struck by small piece of coal.
22	Anthony Farrai,	Italian,	Miner,	47	M.	Butler,		Fall of rock in chamber.
	John Halland,	Au trian,	Miner's laborer,	48	M.	Ewen,		Fall of rock in chamber.
26	John Koteras,	Polish,	Laborer,	55	M.	Laflin,		Slipping on rail.
Sept. 9	Barney Legika,	Lithuanian,	Laborer,	30	S.	Ewen,		Struck by car on road.
17	Andrew Backavage,	Lithuanian,	Miner's laborer,	48	M.	Ewen,		Falling off platform.
Oct. 6	Frank Levandoski,	Polish,	Miner,	50	M.	Number 9,		Fall of coal from roof at face of chamber.
18	Joel Walp,	American,	Carpenter,	73	M.	Number 14,		Falling timber. Outside.
	Martin Tigue,	American,	Runner,	17	S.	Number 6,		Struck by rope on road.
	Andrew Regalls,	Lithuanian,	Miner's laborer,	36	M.	Number 9,		Fall of rock in room.
Nov. 5	James Dooley,	American,	Headman,	39	S.	Number 14,		Struck by car.
	John Boas,	American,	Driller,	40	M.	Ewen,		Struck by drill.
28	Steve Mahalic,	Polish,	Laborer,	52	S.	Number 14,		Rush of culm bank, throwing him against conveyor line. Outside.
Dec. 1	Daniel Carter,	American,	Miner's laborer,	33	M.	Number 6,		Burned by explo ion of gas.
22	Bert Chupter,	American,	Doorboy,	17	S.	Number 14,		Falling off ears.

MINE FOREMEN'S EXAMINATIONS

The following persons passed a satisfactory examination and were granted certificates of qualification:

MINE FORMEN

Samuel Atwell, Thomas J. Newton, Avoca; John W. Schwartz, Duryea; Thomas Oliver, Laflin; Thomas Jones, Michael Keating, John Munley, Charles Mullen, James Joseph Dougher, Harold J. Herbert, George Wendell May, Alexander Kait, Joseph A. Gordon, Peter E. Belford, William J. Judge, John McCartney, George A. Jones, Martin A. Golden, Benjamin Deeble, Idris B. Jones, Pittston; Bart B. Jopling, Plains; Martin J. Gallagher, Wilkes-Barre; John J. Williams, Yatesville.

ASSISTANT MINE FOREMEN

John Madden, Avoca; John Riley, Luzerne; David Havard, Parsons; Robert Wilson Alexander, Thomas Harris, William Harper, James Garvin, Jesse Alexander Wilson, William Tierney, John Cooper, Pittston; Clifford Wall, Alexander Cooke, Alfred S. Ralston, Nello Cappellini, Plains; Robert Walker, Anthony Huffenan, Wilkes-Barre.

1919

NINTH DISTRICT.

LUZERNE AND LACKAWANNA COUNTIES

EDWIN C. CURTIS, INSPECTOR, WEST PITTSON

SUMMARY OF STATISTICS

Collieries in operation (breakers)	10
Washeries in operation,	1
Mines in district,	32
Gaseous mines in operation,	19
Non-gaseous mines in operation,	13
Tons of coal shipped to market,	2,105,426
Tons used at mines for steam and heat,	402,356
Tons sold to local trade and used by employes,	67,575
Tons produced, (gross)	2,575,357
Tons produced by electrical machines,	63,883
Persons employed inside,	3,588
Persons employed outside,	1,406
Persons employed inside between 16 and 21 years,	267
Persons employed outside between 14 and 21 years,	219
Fatal accidents inside,	12
Fatal accidents outside,	2
Serious non-fatal accidents inside,	32
Serious non-fatal accidents outside,	5
Tons produced per fatal accident inside,	214,613
Tons produced per fatal accident inside and outside,	183,954
Persons employed per fatal accident inside,	299
Persons employed per fatal accident outside,	703
Persons employed per fatal accident inside and outside.	357
Persons employed per non-fatal accident inside,	112
Persons employed per non-fatal accident outside,	281
Persons employed per non-fatal accident inside and outside	135
Wives made widows,	9
Children made orphans,	27
Steam locomotives outside,	15
Compressed air locomotives inside,	6
Electric motors inside,	51

Electric motors outside,	1
Cylindrical boilers,	20
Tubular boilers,	66
Steam engines of all classes,	256
Electric dynamos,	18
Pumps of all classes,	178
Pumps delivering water to surface,	52
Air compressors,	8
Fans in use	28
New mines opened,	1

TABLE A

PRODUCTION OF COAL

OPERATORS	GROSS TONS
Lehigh Valley Coal Company,	1,564,601
Temple Coal Company,	398,607
Kingston Coal Company,	375,666
Mount Lookout Coal Company,	227,941
Healey Coal Company,	8,542
Total,	2,575,357

Production by Counties

Luzerne,	2,342,402
Lackawanna,	232,955
Total,	2,575,357

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Lehigh Valley Coal Co.,	9	1	10	19	1	20	173,845	82,347	2,025	778	2,803	225	778	107	778
Temple Coal Co.,	2	------	2	7	1	8	199,304	56,944	603	238	841	302	------	86	238
Kingston Coal Co.,	1	1	2	4	2	6	375,666	93,916	604	247	851	604	247	151	124
Mount Lookout Coal Co.,	------	------	------	2	------	2	------	113,971	323	125	448	------	------	161	------
Healey Coal Co.,	------	------	------	------	1	1	------	------	33	18	51	------	------	------	18
Totals and averages,	12	2	14	32	5	37	214,613	80,480	3,588	1,406	4,994	299	703	112	281

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Lehigh Valley Coal Co.									
Maltby,	Luzerne,	Bottom Ross,	32	Shaft	Gaseous,	1		7,554	
Broadwell,	Lackawanna,	Bottom Red Ash,	36	Drift,	Non-gas.,	2		X	
Total,						3		7,554	
Temple Coal Co.									
Harry E.,	Luzerne,	Four Foot,	48	Drift,	Gaseous,	3		5,506	
Mount Lookout Coal Co.									
Mount Lookout,	Luzerne,	Pittston,	90	Shaft,	Gaseous,	5		50,763	
Grand totals,						11		63,883	

XNot reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General Superintendent	Post Office	Superintendent	Post Office	Railroad to mine
Lehigh Valley Coal Co.						
Stevens,**	Luzerne,	Thomas Thomas,	Wilkes-Barre,	Geo. P. Gallagher,	Wilkes-Barre,	Lehigh Valley
Exeter,	Luzerne,					
Westmoreland,	Luzerne,					
Maltby,	Luzerne,					
Broadwell,	Lackawanna,	Thomas Thomas,	Wilkes-Barre,	Sheldon Jones,	Pittston,	Delaware & Hudson Lehigh Valley
Heidelberg,	Luzerne,					
Seneca,	Luzerne,					
William A.,	Lackawanna,					
Temple Coal Co.						
Forty Fort,	Luzerne,	F. H. Hemelright,	Scranton,	James J. McCarty,	Luzerne,	Lehigh Va'ley
Harry E.,						
Kingston Coal Co.						
Kingston No. 4,	Luzerne,	F. E. Zerbey,	Kingston,	Thos. H. Williams,	Edwardsville,	D. L. & W., O. R. R. of N. J. L. V., Penna., D. & H.
Mount Lookout Coal Co.						
Mount Lookout,	Luzerne,	F. H. Hemelright,	Seranton,	Bruce Weir,	Wyoming,	L. V.; D. L. & W.
Healey Coal Co.						
Troy,	Luzerne,	M. J. Healey,	Plains,			Lehigh Valley

**Idle since February

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Lehigh Valley Coal Co.,												
Stevens,†	Luzerne,	7,300			7,300	31*	2			7,875		
Exeter,	Luzerne,	300,241	64,934	12,936	378,111	271	690	3	7	91,350	213,200	
Westmoreland,	Luzerne,	193,472	15,841	5,663	214,976	265	317	2	3	13,375	179,975	
Maltby,	Luzerne,	243,649	38,492	10,100	292,241	256	536	2	4	248,525	129,950	
Broadwe'l,†	Lackawanna,	56,645			56,645	281	65			50,975	4,725	
Heidelberg,	Luzerne,	170,240	38,693	2,372	211,305	241	393	2	2	85,375	42,250	
Seneca,	Luzerne,	163,296	56,131	8,286	227,713	276	502	1	3	232,500	42,878	
William A.,†	Lackawanna,	133,009	34,781	8,520	176,310	281	298		1	97,175	66,600	163,775
Totals,		1,267,852	248,872	47,877	1,564,601		2803	10	20	820,050	687,453	163,775
Temple Coal Co.												
Forty Fort,	Luzerne,	166,848	28,842	3,179	198,869	236	422	2	4	79,050	84,187	
Harry E.,	Luzerne,	158,402	35,953	5,383	199,738	160	419		4	107,575	86,625	
Totals,		325,250	64,795	8,562	398,607		841	2	8	186,625	170,812	
Kingston Coal Co.												
Kingston No. 4.,	Luzerne,	320,698	47,000	6,722	374,420	282	842	2	6	298,950	5,031	4,900
Kingston No. 4 Washery,	Luzerne,	1,246			1,246	30	9					
Totals,		321,944	47,000	6,722	375,666		851	2	6	298,950	5,031	4,900

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Mount Lookout Coal Co.												
Mount Lookout,	Luzerne,	182,779	41,029	4,133	227,941	213	448		2	56,100	152,950	
Healey Coal Co.												
Troy,	Luzerne,	7,601	660	28[illegible]	8,542	120	51		1		6,000	
Grand totals,		2,105,426	402,356	67,575	2,575,357		4,994	14	37	1,361,725	1,022,246	168,675

*Idle since February.
†Coal prepared at Seneca breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Lehigh Valley Coal Co.,	Luzerne, Lackawanna	6	3,006	40	10,152	149	13,137	----	--------	9	1,125	91	42,982	32	22,060	489	----	9	6	34	2	481
Temple Coal Co.,	Luzerne,	----	--------	14	3,600	41	3,590	----	--------	----	--------	47	20,100	8	4,200	----	----	2	----	1	1	150
Kingston Coal Co.,		14	3,900	----	--------	35	5,500	----	--------	6	1,330	10	7,800	7	5,000	86	----	1	----	6	2	7,500
Mount Lookout Coal Co.,		----	--------	10	2,600	29	2,100	----	--------	3	300	28	13,500	3	2,900	----	----	1	----	9	3	1,800
Healey Coal Co.,		----	--------	2	150	2	125	----	--------	----	--------	2	50	2	50	8	----	2	----	2	----	--------
Totals,		20	6,906	66	16,502	256	24,452	----	--------	18	2,755	178	84,432	52	34,210	583	----	15	6	52	8	9,931

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Lehigh Valley Coal Co.,	Luzerne, Lackawanna	12	61	---	1,039	157	1	5	36	35	282	64	21	51	50	3	26	182	2,025
Temple Coal Co.,		2	5	7	248	63	1	1	1	1	106	21	5	14	13	7	14	94	603
Kingston Coal Co.,	Luzerne,	3	5	8	251	106	------	------	4	4	83	18	8	15	19	4	8	68	604
Mount Lookout Coal Co.,		1	1	5	100	101	5	------	10	10	12	16	3	4	8	------	2	45	323
Healey Coal Co.,		1	------	1	18	3	------	------	------	------	4	1	------	------	2	------	------	3	33
Totals,		19	72	21	1,656	430	7	6	51	50	487	120	37	84	92	14	50	392	3,588

TABLE 3.—PART 1.—Continued

Operators	County	Outside												Grand total inside & outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	
Lehigh Valley Coal Co.,	Luzerne, Lackawanna		7	19	72	131	11	9	36	15	25	453	778	2,803
Temple Coal Co.,			3	4	21	30	12	2	61		6	99	238	841
Kingston Coal Co.,	Luzerne,	1	1	9	28	45	4	2		40	3	114	247	851
Mount Lookout Coal Co.,			1	2	11	19	5	3	18		3	63	125	448
Healey Coal Co.,		1	1	1	1	3			5			6	18	51
Totals,		2	13	35	133	228	32	16	120	55	37	735	1,406	4,994

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Lehigh Valley Coal Co.,	Lackawanna, Luzerne,	24	18	14	19	19	21	21	20	20	22	19	21	258
Temple Coal Co.,	Luzerne,	17	10	10	16	18	18	18	19	17	19	17	19	198
Kingston Coal Co.,		26	16	20	24	24	23	26	24	25	26	23	25	282
Mount Lookout Coal Co.,		19	13	12	19	19	16	20	19	18	20	18	20	213
Healey Coal Co.,		26	16							4	27	22	25	120

TABLE 4.—Fatal accidents ins'de and outs de

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	6	Albert Spagnul,	Italian,	Miner,	25	S.			Exeter,		Fall of coal at face of pillar.
	30	John Razskie,	Polish,	Miner's laborer,	59	M.	1	2	Forty Fort,		Fall of roof—making repairs along road in pillars.
Mar.	27	John Andis,	Slavonian,	Miner,	50	M.	1	3	Maltby,		Blast at face of chamber.
June	26	Martin Beloy,	Russian,	Miner,	34	M.	1	1	Westmoreland,		Crushed between car and rib near face of chamber.
Aug.	1	Frank Victor,	Austrian,	Miner,	39	M.	1	7	Heidelberg,		Fall of coal at face of chamber.
	28	Stanley Yon koski,	Russian,	Miner,	32	M.	1	2	Exeter,		Fall of coal at face of pillar.
Sept.	9	Anthony Shamanskie,	Polish,	Miner,	43	M.	1	5	Westmoreland,	Luzerne,	Premature blast at face of chamber.
	10	Stanley Kalmenski,	Russian,	Miner,	37	M.	1	2	Seneca,		Fall of coal at face of chamber.
	24	Anthony Zuis,	American,	Miner,	32	S.			Exeter,		Fall of roof at face of chamber.
	26	John Churba,	American,	Miner's laborer,	25	S.			Maltby,		Fall of roof at face of pillar—loading
Nov.	18	Stanley Lynn,	American,	Fan runner,	22	S.			King ton No. 4		Caught in ventilating fan. Outside.
	25	George Holodeck,	Russian,	Miner,	46	M.	1	1	Forty Fort,		Fall of coal at face of pillar.
Dec.	19	Harold Tilly,	American,	Brakeman,	18	S.			Heidelberg,		Falling under trip of cars. Outside.
	30	Peter Zerovitz,	Polish,	Miner,	36	M.	1	4	Kingston No. 4		Fall of roof at face of gangway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 25	Thomas Kasavage,	Polish,	Miner,	27	S.	Maltby,	Luzerne,	Blast at face of chamber.
28	William Jackson,	Lithuanian,	Driver,	17	S.	Seneca,		Cars on gangway.
Feb. 3	William Hughes,	American,	Breaker boss,	41	M.	Troy,		Falling while replacing belt in breaker. Outside.
5	George Abromavage,	Lithuanian,	Driver,	17	S.	Exeter,		Knocked down by mule and caught under car on gangway.
10	Andrew Kopral,	Lithuanian,	Miner,	59	M.	Forty Fort,		Blast at face of chamber.
26	Andrew Voda,	Slavonian,	Driver,	18	S.	Exeter,		Falling while running after mules.
March 18	Julius Majskatus,	Lithuanian,	Miner,	35	M.	Seneca,		Caught between two pieces of rock—loading car at face of chamber.
28	Mike Dobin,	Slavonian,	Miner,	35	M.	Exeter,		Fall of coal at face of chamber.
May 10	Anthony Serofino,	Italian,	Miner,	25	M.	Mount Lookout,		Fall of roof on gangway.
17	Andrew Hamick,	Austrian,	Miner's laborer,	40	M.	Exeter,		Fall of roof at face of chamber.
June 9	Richard McHale,	American,	Miner,	40	S.	Maltby,		Fall of top rock at face of chamber.
14	Daniel Thomas,	Welsh,	Miner,	52	M.	Kingston No. 4,		Premature blast at face of chamber.
25	Toney Pasquirella,	Italian,	Fireman,	38	M.	Heidelberg,		Caught while filling grease cups on fan. Outside.
July 3	William G. Williams,	American,	Miner,	47	M.	Kingston No. 4,		Fall of rock at face of chamber.
8	Leonard Wolfinger,	American,	Brakeman,	31	M.	Westmoreland,		Cars on gangway—coupling.
17	Steve Stelma,	Slavonian,	Miner's laborer,	27	M.	Mount Lookout,		Caught by piece of sliding coal in chute.
Aug. 8	Joseph Berniski,	Polish,	Driver,	17	S.	Harry E.,		Falling under cars on gangway.
22	Andrew Hannedell,	Slavonian,	Driver,	21	S.	Harry E.,		Car on gangway.
29	Joseph Goryl,	Austrian,	Miner,	33	M.	Westmoreland,		Blast at face of chamber.
Sept. 6	David J. Jones,	Welsh,	Machinist,	60	M.	Kingston No. 4,		Piece of iron falling. Outside.
	John Steven on,	American,	Footman,	22	S.	William A,	Lackawanna,	Car on gangway road.
12	Joseph Leshock,	Polish,	Laborer,	51	M.	Kingston No. 4,	Luzerne,	Timber falling—putting timber down shaft. Outside.
16	Walter Hughes,	American,	Assistant mine foreman,	34	M.	Forty Fort,		Struck by rope on slope.
17	John Malinoski,	Russian,	Miner,	46	M.	Heidelberg,		Fall of top coal at face of chamber.
22	Charles Karkutskie,	Russian,	Miner,	63	W.	Westmoreland,		Fall of rock at face of chamber.
24	Albert Sylvester,	American,	Driver,	24	M.	Exeter,		Car on gangway.
25	Frank Duffy,	Irish,	Engineer,	36	M.	Exeter,		Jumping off runaway trip on gangway.
26	Joseph Maleki,	Russian,	Miner,	45	M.	Maltby,		Fall of rock at face of chamber.
Oct. 12	Jake Jadas,	Polish,	Miner's laborer,	39	M.	Harry E.,		Fall of coal at face of chamber.
25	Charles Bernaski,	Polish,	Miner,	45	M.	Forty Fort,		Fall of top rock at face of chamber

TABLE 5.—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Nov. 11	Alex Larbosky,	Polish,	Miner,	45	M.	Kingston No. 4,	Luzerne,	Fall of coal at face of chamber.
12	Andro Rinage,	Slavonian,	Miner,	36	M.	Maltby,		Fall of top coal at face of chamber.
14	William Pointon,	American,	Blacksmith,	27	S.	Forty Fort,		Machinery in machine shop. Outside.
16	Alex Strono ky,	Polish,	Miner,	37	M.	Kingston No. 4,		Coal sliding from gob.
Dec. 4	Samuel Cacacai,	Italian,	Miner,	40	M.	Seneca,	Luzerne,	Fall of rock on branch road.
9	Michael Bellani,	Italian,	Miner,	42	M.	Harry E.,	Luzerne,	Premature blast—using iron scraper to tamp.
15	Samuel Booth,	American,	Timberman,	32	M.	Exeter,	Luzerne,	Fall of rock while loading car on plane.

MINE FOREMEN'S EXAMINATIONS.

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held on May 6 and 7, in the Y. M. C. A. Rooms, Pittston. The Board of Examiners was composed of Edwin C. Curtis, Mine Inspector, James J. McCarty, Superintendent, Thomas Grogan and John Evers, Miners, Luzerne.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Arthur J. Button, Wyoming; John F. Leary, Luzerne; Charles F. Millington, Nanticoke.

ASSISTANT MINE FOREMEN

John Ferdinando, John Halpin, Richard B. Laverick, West Wyoming; Benjamin F. Simonson, Joseph R. Williams, West Pittston; George Maricle, Swoyersville; William Jones, Forty Fort; Vincent Trettis, Kingston; William Thomas, Taylor.

1919

TENTH DISTRICT.

LUZERNE COUNTY

JOHN B. CORGAN, INSPECTOR, KINGSTON

SUMMARY OF STATISTICS.

Collieries in operation (breakers),	11
Washeries in operation,	1
Mines in district,	55
Gaseous mines in operation,	23
Non-gaseous mines in operation,	32
Tons of coal shipped to market,	2,546,638
Tons used at mines for steam and heat,	352,285
Tons sold to local trade and used by employes,	55,383
Tons produced (gross)	2,954,306
Tons produced by compressed air machines,	2,580
Tons produced by electrical machines,	5,289
Persons employed inside,	4,494
Persons employed outside,	1,236
Persons employed inside between 16 and 21 years,	402
Persons employed outside between 14 and 21 years,	269
Fatal accidents inside,	21
Fatal accidents outside,	1
Serious non-fatal accidents inside,	32
Serious non-fatal accidents outside,	6
Tons produced per fatal accident inside,	140,681
Tons produced per fatal accident inside and outside,	134,286
Persons employed per fatal accident inside,	214
Persons employed per fatal accident outside,	1,236
Persons employed per fatal accident inside and outside	260
Persons employed per non-fatal accident inside,	140
Persons employed per non-fatal accident outside,	206
Persons employed per non-fatal accident inside and outside,	151
Wives made widows,	13
Children made orphans,	20
Steam locomotives outside,	22
Compressed air locomotives inside,	2
Electric motors inside,	62
Electric motors outside,	3
Cylindrical boilers,	8
Tubular boilers,	57
Steam engines of all classes,	233
Electric dynamos,	51
Pumps of all classes,	166
Pumps delivering water to surface,	31
Air compressors,	23
Fans in use,	28

TABLE A

PRODUCTION OF COAL

OPERATORS	GROSS TONS
Hudson Coal Company,	945,401
Lehigh Valley Coal Company,	674,557
Delaware, Lackawanna and Western Railroad Company,	527,596
Haddock Mining Company,	177,847
Wilkes-Barre Colliery Company,	164,012
East Boston Coal Company,	159,882
Traders Coal Company,	79,699
Raub Coal Company,	76,051
Central Coal Company,	65,647
John Conlon,	44,304
Healey Coal Company,	39,310
Total,	2,954,306

PRODUCTION BY COUNTIES

Luzerne,	2,954,306

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	6	1	7	3	3	6	157,567	315,134	1,299	385	1,684	217	385	433	128
Lehigh Valley Coal Co.,	2	------	2	5	------	5	337,279	134,911	923	162	1,085	462	----------	185	----------
Delaware, Lackawanna and Western Railroad Co.,	8	------	8	9	1	10	65,950	58,622	700	179	879	88	----------	78	179
Haddock Mining Co.,	1	------	1	3	1	4	177,847	59,282	260	114	374	260	----------	87	114
Wilkes-Barre Colliery Co.,	1	------	1	2	1	3	164,012	82,006	276	63	339	276	----------	138	63
East Boston Coal Co.,	1	------	1	------	------	------	159,882	----------	273	100	373	273	----------	----------	----------
Traders Coal Co.,	1	------	1	2	------	2	79,699	39,850	253	81	334	253	----------	127	----------
Central Coal Co.,	------	------	------	1	------	1	----------	65,647	130	32	162	----------	----------	130	----------
John Conlon,	1	------	1	------	------	------	44,364	----------	100	14	114	100	----------	----------	----------
Healey Coal Co.,	------	------	------	7	------	7	----------	5,616	72	35	107	----------	----------	10	----------
Raub Coal Co.,	------	------	------	------	------	------	----------	----------	208	71	279	----------	----------	----------	----------
Totals and averages	21	1	22	32	6	38	140,681	92,322	4,494	1,236	5,730	214	1,236	140	206

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and Mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Hudson Coal Co.,									
Pine Ridge,	Luzerne,	Red Ash,	39	Shaft,	Gaseous,	1		5,289	
East Boston Coal Co.,									
East Boston,	Luzerne,	Red Ash,	115	Shaft,	Gaseous,		9		2,589
Delaware, Lackawanna and Western Railroad Co. **.									
Totals,						1	9	2,289	2,589

**Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General Superintendent	Post Office	Superintendent	Post office	Railroad to mine
Hudson Coal Co. Delaware, Pine Ridge, Laurel Run, Pine Ridge Washery,	Luzerne,	R. H. Buchanan.	Scranton,	J. J. Walsh,	Wilkes-Barre,	Delaware & Hudson.
Lehigh Valley Coal Co. Henry, Mineral Spring,	Luzerne,	Thomas Thomas,	Wilkes Barre,	J. H. Haertter, P. S. Warriner,	Wilkes-Barre, Wilkes-Barre,	Lehigh Valley.
Delaware, Lackawanna and Western Railroad Co. Pettebone,	Luzerne,	S. D. Dimmick,	Scranton,	J. L. Reynolds,	Dorranceton,	D., L. & W.
Haddock Mining Co. Black Diamond,	Luzerne,		Luzerne,	David S. Morris, Inside, Walter R. Hawke, Outside,	Luzerne,	D., L. & W.; L. V.
Wilkes-Barre Colliery Co., Madeira,	Luzerne,	Thomas R. Jones,	Fraekville,	M. Bruce Holder,	Parsons,	Delaware & Hudson.
East Boston Coal Co. East Boston,	Luzerne,	W. T. Payne,	Kingston,	W. T. Payne,	Kingston,	D., L. & W., Penna.; L. V.
Traders Coal Co. Ridgewood,	Luzerne,	W. L. Schlager,	Scranton,	M. J. McHale,	Parsons,	Erie; C. R. R. of N. J.
Raub Coal Co., Louise,	Luzerne,	Gwillym Edwards.	Luzerne,	Gwillym Edwards,	Luzerne,	Lehigh Valley.
Central Coal Co. Wyoming.	Luzerne,	A. F. Wolf,	Wilkes-Barre,	W. J. Startzell,	Hudson.	Delaware & Hudson.
John Conlon. Conlon,	Luzerne,	John Conlon,	Hudson,	Philip Condron,	Plains,	Delaware & Hudson.
Healey Coal Co. Miners Mills,	Luzerne,	M. J. Healey,	Plains,	Edward Jenkins,	Plains,	Lehigh Valley.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Delaware†,	Luzerne,	----------	18,907	----------	18,907	†	590	2	2	302,150	80,407	22,120
Pine Ridge,	Luzerne,	765,319	42,834	11,292	819,445	311	975	5	4	463,075	25,082	122,884
Delaware,	Luzerne,					†	119					
Pine Ridge Washery,	Luzerne,	765,319	61,741	11,292	838,352	--------	1,684	7	6	765,225	105,489	145,004
		26,242	80,807	----------	107,049	**	*	--------	--------	----------	----------	----------
Totals,		791,561	142,548	11,292	945,401	--------	1,684	7	6	765,225	105,489	145,004
Lehigh Valley Coal Co.												
Henry††,	Luzerne,	379,186	60,753	6,445	446,384	††271	685	--------	3	228,125	226,000	1,290
Mineral Spring,	Luzerne,	192,718	28,531	6,924	228,173	236	400	2	2	45,900	118,109	----------
Totals,		571,904	89,284	13,369	674,557	--------	1,085	2	5	274,025	344,109	1,290
Delaware, Lackawanna and Western Railroad Co.												
Pettebone,	Luzerne,	478,367	38,537	10,692	527,596	289	879	8	10	295,800	17,244	72,451
Haddock Mining Co.												
Black Diamond,	Luzerne,	146,355	27,375	4,117	177,847	242	374	1	4	40,000	61,200	750
Wilkes-Barre Colliery Co.												
Madeira,	Luzerne,	160,540	1,356	2,116	164,012	276	339	1	3	205,000	20,500	----------
East Boston Coal Co.												
East Boston,	Luzerne,	109,599	45,625	4,658	159,882	247	373	1	--------	30,975	6,518	48,049

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collierie for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Traders Coal Co.												
Ridgewood,	Luzerne,	77,099	2,060	540	79,699	149	334	1	2	58,700	12,000	----------
Raub Coal Co.												
Louise,	Luzerne,	69,552	1,800	4,699	76,051	170	279	--------	--------	3,400	13,950	42,350
Central Coal Co.												
Wyoming,	Luzerne,	63,628	1,300	719	65,647	273	162	--------	1	93,650	3,802	9,755
John Conlon												
Conlon,	Luzerne,	41,297	200	2,807	44,504	286	114	1	--------	25,000	6,800	2,975
Healey Coal Co.												
Miners Mills,	Luzerne,	36,736	2,200	374	39,310	241	107	--------	7	31,000	1,000	----------
Grand Totals,		2,546,638	352,285	55,383	2,954,306	--------	5,730	22	38	1,822,775	592,612	322,624

* Included with Pine Ridge Colliery.
** Not reported.
† Coal prepared at Pine Ridge breaker.
†† Coal prepared at Prospect breaker, 11th District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total Number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.,	Luzerne,	----	--------	15	5,208	122	12,193	--	--------	3	900	48	27,800	7	5,100	154	----	7	----	28	6	5,960
Lehigh Valley Coal Co.,		4	1,000	8	2,050	46	4,345	---	--------	2	27	43	18,000	4	7,322	204	----	8	2	6	4	3,161
Delaware, Lackawanna & Western Railroad Co.,		----	--------	13	2,259	29	9,167	---	--------	----	--------	2	1,534	2	650	26	----	3	----	17	2	1,880
Haddock Mining Co.,		3	1,100	4	400	6	660	---	--------	2	110	29	12,000	3	2,000	48	----	1	----	1	3	3,500
Wilkes-Barre Colliery Co.,		----	--------	1	75	----	--------	---	--------	1	100	7	1,500	1	250	19	----	----	----	5	1	1,900
East Boston Coal Co.,		----	--------	8	1,942	27	1,258	---	--------	1	60	18	4,970	3	4,500	76	----	----	----	----	3	7,500
Traders Coal Co.,		----	--------	3	210	----	--------	---	--------	20	1,800	2	1,500	2	1,500	39	----	----	----	4	----	--------
Raub Coal Co.,		----	--------	2	600	----	--------	---	--------	3	20	7	4,000	2	1,500	28	----	1	----	3	1	150
Central Coal Co.,		----	--------	1	125	----	--------	---	--------	----	--------	8	880	7	790	4	----	1	----	----	1	†
John Conlon,		----	--------	1	50	----	--------	---	--------	15	450	2	700	----	--------	16	----	----	----	1	1	200
Healey Coal Co.,		1	100	1	150	3	160	---	--------	4	190	----	--------	----	--------	18	----	1	----	----	1	600
Totals,		8	2,200	57	13,069	233	27,723	---	--------	51	3,657	166	73,484	31	23,612	632	----	22	2	65	23	21,791

†Not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total Inside.
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Luzerne,	3	10	15	583	212	5	15	25	24	175	30	13	12	14	1	2	160	1,299
Lehigh Valley Coal Co.,	Luzerne,	4	31	------	383	80	------	------	7	7	132	31	15	31	12	1	54	126	923
Delaware Lackawanna, and Western Railroad Co.,	Luzerne,	2	13	------	291	104	------	5	19	19	26	12	14	35	4	6	11	139	700
Haddock Mining Co.,	Luzerne,	1	2	2	90	35	------	------	1	1	35	6	2	30	11	1	1	42	260
Wilkes-Barre Colliery Co.,	Luzerne,	1	6	2	120	70	------	------	6	3	21	7	2	------	5	3	------	30	276
East Boston Coal Co.,	Luzerne,	1	3	4	73	69	†	†	------	------	54	11	14	17	10	------	1	16	273
Traders Coal Co.,	Luzerne,	1	4	2	132	40	------	------	4	4	32	4	2	2	3	1	3	19	253
Raub Coal Co.,	Luzerne,	4	3	1	98	48	------	------	6	2	27	7	2	3	2	------	------	5	208
Central Coal Co.,	Luzerne,	1	2	------	70	20	------	------	------	------	9	4	3	10	2	------	2	7	130
John Conlon,	Luzerne,	1	2	2	34	36	------	------	------	------	23	2	------	------	------	------	------	------	100
Healey Coal Co.,	Luzerne,	1	------	3	37	10	------	------	------	------	11	2	1	1	------	------	------	6	72
Totals,		20	76	31	1,911	733	5	20	68	60	545	116	68	141	63	13	74	550	4,494

†Not reported.

TABLE 3.—PART 1.—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Luzerne,	1	5	13	21	51	11	-------	-------	27	14	248	385	1,684
Lehigh Valley Coal Co.,	Luzerne,	-------	2	2	5	45	3	6	-------	5	5	89	162	1,085
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	1	2	6	15	26	2	4	26	-------	3	94	179	879
Haddock Mining Co.,	Luzerne,	1	1	2	6	18	2	-------	24	-------	2	58	114	374
Wilkes-Barre Colliery Co.,	Luzerne,	1	-------	2	5	8	1	1	4	4	3	34	63	339
East Boston Coal Co.,	Luzerne,	1	3	1	6	18	3	2	17	6	6	37	100	373
Traders Coal Co.,	Luzerne,	1	1	1	6	6	1	1	12	5	1	46	81	334
Raub Coal Co.,	Luzerne,	1	2	2	4	4	1	2	7	4	3	41	71	279
Central Coal Co.,	Luzerne,	-------	1	2	2	3	-------	2	8	-------	5	9	32	162
John Conlon,	Luzerne,	-------	1	1	1	1	-------	-------	-------	-------	2	8	14	114
Healey Coal Co.,	Luzerne,	1	1	1	2	4	-------	-------	12	-------	3	11	35	107
Totals,		8	19	33	73	184	24	18	110	45	47	675	1,236	5,730

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Luzerne,	28	27	28	26	26	25	23	25	22	27	25	29	311
Lehigh Valley Coal Co.,		24	19	14	21	21	22	22	22	22	24	21	22	254
Delaware Lackawanna and Western Railroad Co.,		27	18	19	25	25	25	25	26	24	26	23	26	289
Haddock Mining Co.,		23	19	22	20	19	19	19	18	16	23	21	23	242
Wilkes-Barre Colliery Co.,		26	12	19	24	24	24	25	23	25	26	23	25	276
East Boston Coal Co.,		26	16	8	14	14	20	25	25	25	26	22	25	247
Traders Coal Co.,		26	------	------	------	------	------	7	24	24	25	21	22	149
Raub Coal Co.,		21	9	5	4	11	13	15	15	17	18	18	24	170
Central Coal Co.,		26	15	15	22	24	25	24	24	24	26	23	25	273
John Conlon		26	18	19	22	25	25	26	25	25	26	24	25	286
Healey Coal Co.,		25	18	15	20	19	15	22	22	14	25	22	24	241

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 21	John Malewski,	Polish,	Miner,	36	M.	1		Conlon,		Fall of coal at face.
28	Michael Bucher,	Austrian,	Miner,	39	M.	1	1	Pettebone,		Fall of roof in chamber.
Feb. 10	Daniel Dillon,	Irish,	Miner,	53	S.			Pettebone,		Fall of roof at face of crosscut.
Mar. 10	Jacob Banti,	Polish,	Miner,	25	S.			Pine Ridge,		Premature blast at face of workings.
21	Con Brzycki,	American,	Miner,	28	M.	1	2	Pine Ridge,		Premature blast at face of workings-charging.
	David Mowry,	American,	Bratticeman,	28	M.	1	2			Explosion of gas in cross section between airway and gangway.
Apr. 29	George Franklin,	American,	Doorboy,	17	S.			Pettebone,		
	Edward Richards,	American,	Brakeman,	22	S.					
May 19	Hugh Carichner,	American,	Miner,	35	M.	1	3	Mineral Spring,		Premature blast at face of chamber—tamping.
	Frank Carichner,	American,	Miner,	30	M.	1	2		Luzerne,	
31	John Mondulick,	Slavonian,	Brakeman,	18	S.			Pine Ridge,		Runaway cars on gangway.
June 23	George Tolandish,	Lithuanian,	Miner,	45	M.	1		Madeira,		Blast at face of chamber—returned too soon.
July 3	Joseph Pultkowski,	Polish,	Miner's laborer,	55	S.			Delaware,		Explosion of gas in chamber ignited by naked lamps. Putting up canvas.
	Andrew Peerhala,	Slavonian,	Miner,	66	M.	1				
16	Stephen Socko,	Slavonian,	Laborer,	58	M.	1	2	Pine Ridge,		Burned by slide of ashes. Outside.
19	David Williams,	Welsh,	Planeman,	30	S.			Pettebone,		Crushed between car and rails on plane.
31	Anthony Caralonis,	Lithuanian,	Miner,	33	M.	1	4	East Boston,		Fall of coal and rock in face of chamber.
Aug. 16	Alex Mollisky,	Russian,	Miner,	35	M.	1	3	Black Diamond,		Fall of roof at face of chamber.
Oct. 1	Leo Topolski,	Polish,	Miner's laborer,	58	M.	1	1	Pettebone,		Premature blast at face of working place.
6	Frank Parica,	Italian,	Miner,	27	S.			Pine Ridge,		Fall of roof at face of chamber.
13	Robert Roberts,	Welsh,	Assistant mine foreman.	32	M.	1		Pettebone,		Fall of roof at entrance to crosscut in chamber.
Dec 13	Alick Kiz,	Austrian,	Miner,	35	S.			Ridgewood,		Fall of roof at face of chamber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 7	William R. Williams,	Welsh,	Miner,	39	M.	Pettebone,	Luzerne,	Fall of roof at face.
10	William Saunders,	American,	Machinist,	26	M.	Pettebone,		Caught between fan shaft and concrete wall. Outside.
18	Andrew Hola,	Polish,	Rock unloader,	50	M.	Madeira,		Runaway car on slope.
21	John Karboski,	Polish,	Miner,	51	M.	Henry,		Fall of coal at face.
25	Thomas Larkin,	Irish,	Footman,	29	M.	Pettebone,		Cars at foot of shaft.
Feb. 4	Larry Brishubi,	Lithuanian,	Laborer,	60	M.	Pettebone,		Struck by dump lever.
6	John J. Evans,	Welsh,	Machinist,	43	M.	Pettebone,		Falling off plank in fan room.
11	William Kropp,	German,	Carpenter,	45	S.	Miners Mills,		Struck by flying piece of steel.
20	Frank Stanford,	Irish,	Planeman,	33	M.	Pettebone,		Derailed cars on plane.
April 9	Lewis Bubble,	Dutch,	Timber-cutter,	60	M.	Madeira,		Struck by rolling prop. Outside.
14	Jacob Mickalovich,	Polish,	Miner,	39	M.	Black Diamond,		Fall of slate at face.
15	Engique Garza,	Mexican,	Miner's laborer,	31	S.	Pine Ridge,		Fall of rock at face.
16	Raymond Packerd,	American,	Miner's laborer,	33	M.	Mineral Spring,		Struck by piece of rock that slid from car at face.
19	Matthew Gallagher,	American,	Miner,	50	M.	Pettebone,		Cars on gangway.
May 8	John Bartuski,	Polish,	Miner's laborer,	45	S.	Mineral Spring,		Fall of rock from rib.
16	Nat Tarabus,	Russian,	Miner,	24	S.	Wyoming,		Fall of rock at face of pillar.
21	Stanley Frolchick,	Polish,	Miner,	32	M.	Miners Mills,		Fall of rock on gangway.
June 12	Robert Johnson,	Swedish,	Runner,	49	S.	Pine Ridge,		Mine cars. Outside.
	John Malinowski,	Polish,	Dumper,	49	M.			
13	Harry Williams,	American,	Footman,	43	M.	Henry,		Cars at foot of shaft.
16	Joseph Michelli,	American,	Driver,	17	S.	Pine Ridge,		Kicked by mule.
25	Martin Baguskie,	Polish,	Miner,	26	S.	Miners Mills,		Premature blast at face.
July 14	Paul Gula,	Russian,	Brakeman,	27	S.	Pettebone,		Caught by cars—closing latch.
17	Furicoo Pansula,	Italian,	Miner's laborer,	32	S.	Miners Mills,		Cars at foot of slope.
Aug. 8	Frank Murowski,	Polish,	Miner's laborer,	37	M.	Delaware,		Fall of rock in room.
	Anthony Fonzo,	Italian,	Brakeman,	19	S.	Delaware,		Run over by mine locomotive. Outside.
12	William Kinney,	Irish,	Miner,	50	M.	Pettebone,		Struck by piece of coal at face.
21	Calvin Williams,	American,	Laborer,	28	M.	Pettebone,		Runaway car on roadway.
Sept. 2	Mark Guchinas,	Croatian,	Timberman,	34	M.	Black Diamond,		Fall of roof on gangway.
Oct. 11	Stephen Cavage,	Polish,	Miner,	37	M.	Miners Mills,		Premature blast at face.
14	Antony Bohonko,	Polish,	Miner,	30	M.	Madeira,		Delayed blast at face.
18	Jacob Urban,	Polish,	Fire boss,	46	M.	Miners Mills,		Car.
Nov. 10	Paul Miller,	American,	Brakeman,	24	S.	Ridgewood,		Caught in ties while riding on locomotive on gangway.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Nov. 18	Joseph Pavasaris,	Lithuanian,	Slatepicker,	16	S.	Black Diamond,	Luzerne,	Falling in breaker. Outside.
25	John Barcovitch,	Poli h,	Miner,	28	M.	Henry,		Premature blast at face.
28	Marko Blanconi,	Italian,	Miner,	28	S.	Ridgewood,		Premature blast at face.
Dec. 14	Peter Dimmick,	Austrian,	Miner,	28	M.	Black Diamond,		Falling timber on slope.
31	John Kosloski,	Polish,	Driver,	18	S.	Miners Mills,		Car.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Formen was held in Kingston, May 6 and 7. The Board of Examiners was composed of John B. Corgan, Mine Inspector; Gilbert S. Jones, Superintendent, Dorranceton; Thomas Thornton, Miner, Parsons; William J. Cotter, Miner, Wyoming.

The following applicants passed a successful examination and were granted certificates:

MINE FOREMEN

William Jones, Patrick J. Moran, Dorranceton; Robert H. Roberts, Richard Gill, Parsons; Fred H. Alderson, Luzerne; Walter J. Gotshall, Askam; Frank Sobashinski, Joseph Stukowski, Michael Dula, Plymouth; Casimir Sieminski, Swoyersville; Roger Sayes, Wilkes-Barre; Burton B. Williams, Plains; Dennis Harrington, Miners Mills; Daniel W. Davis, Kingston.

ASSISTANT MINE FOREMEN

Fred Allford, Miners Mills; Alfred Morgan, Bernard P. Lamparski, Wilkes-Barre; William Quigley, Frank Psolka, Charles D. Gerlack, Michael J. Bandish, Luzerne; Robert Laverick, Wyoming; Thomas P. Duffy, Kingston; Robert Howe, Gordon Watkins, Parsons; Joseph Klosowski, Zigmond S. Tomkiewicz, John P. Pleban, Leon Skonronski, Plymouth; Barney Rayuski, Breslau; Richard Morgan, John Wallace, Robert Berwick, Plains; Louis Parzkamitz, Swoyersville; Thomas Thomas, Edwardsville; Frank Wilkes, Larksville, Jesse Maidment, West Wyoming.

1919

ELEVENTH DISTRICT.

Luzerne County.

Thomas Williams, Inspector, Wilkes-Barre.

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	2
Mines in district,	23
Gaseous mines in operation,	22
Non-gaseous mines in operation,	1
Tons of coal shipped to market,	2,655,761
Tons used at mines for steam and heat,	348,591
Tons sold to local trade and used by employes,	251,605
Tons produced (gross),	3,255,957
Persons employed inside,	4,572
Persons employed outside,	1,513
Persons employed inside between 16 and 21 years,	369
Persons employed outside between 14 and 21 years,	194
Fatal accidents inside,	114
Fatal accidents outside,	2
Serious non-fatal accidents inside,	91
Serious non-fatal accidents outside,	4
Tons produced per fatal accident inside,	28,561
Tons produced per fatal accident inside and outside,	28,069
Persons employed per fatal accident inside,	40
Persons employed per fatal accident outside,	757
Persons employed per fatal accident inside and outside,	52
Persons employed per non-fatal accident inside,	50
Persons employed per non-fatal accident outside,	378
Persons employed per non-fatal accident inside and outside,	64
Wives made widows,	84
Children made orphans,	206
Steam locomotives outside,	22
Compressed air locomotives inside,	10
Electric motors inside,	44
Tubular boilers,	92
Steam engines of all classes,	354

Electric dynamos,	16
Pumps of all classes,	120
Pumps delivering water to surface,	26
Air compressors,	18
Fans in use,	29
Internal combustion engines (gas),	2

TABLE A

Production of Coal.

Operators	Gross tons
Lehigh and Wilkes-Barre Coal Company,	1,328,531
Lehigh Valley Coal Company,	969,717
Hudson Coal Company,	754,588
Wilkes-Barre Anthracite Coal Company,	112,689
Red Ash Coal Company,	90,432
Total,	3,255,957

Production by Counties.

Luzerne,	3,255,957

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Lehigh and Wilkes-Barre Coal Co.,	8	------	8	34	1	35	166,066	39,074	1,937	608	2,545	242	----------	57	608
Lehigh Valley Coal Co.,	9	------	9	9	------	9	107,746	107,746	1,211	308	1,519	135	----------	135	----------
Hudson Coal Co.,	96	1	97	43	3	46	7,860	17,549	1,210	309	1,519	13	309	28	103
Wilkes-Barre Anthracite Coal Co.,	1	1	2	3	------	3	112,689	37,563	168	59	227	168	59	56	----------
Red Ash Coal Co.,	------	------	------	2	------	2	----------	45,216	46	229	275	----------	----------	23	----------
Totals and averages,	114	2	116	91	4	95	28,561	35,780	4,572	1,513	6,085	40	757	50	378

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Lehigh and Wilkes-Barre Coal Co.						
Stanton No. 7,	Luzerne,	C. F. Huber,	Wilkes-Barre,	Douglass Bunting,	Wilkes-Barre,	C. R. R. of N. J.
South Wilkes-Barre No. 5,						
Hollenback No. 2,						
Empire Washery,						
Lehigh Valley Coal Co.						
Dorrance,	Luzerne,	Thomas Thomas,	Wilkes-Barre,	J. H. Haertter,	Wilkes-Barre,	Lehigh Valley
Prospect,						
Hudson Coal Co.						
Baltimore No. 5,	Luzerne,	R. H. Buchanan,	Scranton,	J. McCrystle,	Wilkes-Barre,	Delaware & Hudson
Baltimore No. 5 Washery,						
Wilkes-Barre Anthracite Coal Co.						
Hillman Vein,	Luzerne.			John T. Cartwright,	Dorranceton,	Lehigh Valley
Red Ash Coal Co.						
Red Ash No. 2**,	Luzerne,	William D. Jones,	Wilkes-Barre,	William D. Jones,	Wilkes-Barre,	C. R. R. of N. J.

** Red Ash No. 2 Slope idle on account of mine fire; stripping in operation

TABLE 2.—PART 1.—Number of tons of coal mined, number of da ys worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Lehigh and Wilkes-Barre Coal Co.												
Stanton No. 7,	Luzerne,	505,117	53,781	26,460	585,358	275	1,161	4	21	341,975	24,300	148,525
South Wilkes-Barre No. 5,	Luzerne,	292,347	40,875	87,165	420,387	273	790	4	10	159,775	19,550	133,025
Hollenback No. 2,	Luzerne,	160,030	31,581	60,219	251,830	273	517	--------	4	81,225	4,743	97,153
	Luzerne,	957,494	126,237	173,844	1,257,575	--------	2,468	8	35	582,975	48,593	378,703
Empire Washery,	Luzerne,	70,246	--------	710	70,956	192	77	--------	--------	--------	--------	--------
Totals,		1,027,740	126,237	174,554	1,328,531	------	2,545	8	35	582,975	48,593	378,703
Lehigh Valley Coal Co.												
Dorrance,	Luzerne,	470,421	64,294	60,349	595,064	274	815	6	2	372,750	65,210	--------
Prospect,	Luzerne,	330,588	42,292	1,773	374,653	271	704	3	7	223,375	64,440	20,525
Totals,		801,009	106,586	62,122	969,717	--------	1,519	9	9	596,125	129,650	20,525
Hudson Coal Co.												
Baltimore No. 5,	Luzerne,	652,094	81,750	12,611	746,435	297	1,519	97	46	344,875	57,708	150,338
Baltimore No. 5 Washery,	Luzerne,	7,515	638	--------	8,153	--------	--------	--------	--------	--------	--------	--------
Totals,		659,609	82,368	12,611	754,588	--------	1,519	97	46	344,875	57,708	150,338
Wilkes-Barre Anthracite Coal Co.												
Hillman Vein,	Luzerne,	89,332	21,900	1,457	112,689	251	227	2	3	66,125	4,912	--------
Red Ash Coal Co.												
Red Ash No. 2*,	Luzerne,	78,671	11,500	861	90,432	122	275	--------	2	12,500	5,950	5,150
Grand totals,		2,655,761	348,591	251,605	3,255,957	--------	6,085	116	95	1,602,600	246,813	554,716

* Red Ash No. 2 Slope idle on account of mine fire; stripping in operation.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	----	--------	39	7,845	162	18,019	---	--------	3	1,200	34	15,673	7	2,964	303	----	5	10	6	7	8,074
Lehigh Valley Coal Co.,	Luzerne,	----	--------	17	4,753	50	11,735	---	--------	6	925	28	9,300	5	5,800	146	----	4	----	27	3	3,840
Hudson Coal Co.,	Luzerne,	----	--------	29	6,855	122	16,145	---	--------	5	1,655	55	27,775	11	4,600	183	----	7	----	8	3	3,700
Wilkes-Barre Anthracite Coal Co.,	Luzerne,	----	--------	4	2,000	8	610	---	--------	2	800	1	800	1	800	19	----	----	----	3	3	800
Red Ash Coal Co.,	Luzerne,	----	--------	3	900	12	1,042	2	12	----	--------	2	1,100	2	900	34	----	6	----	----	2	300
Totals,		----	--------	92	22,353	354	47,551	2	12	16	4,580	120	54,648	26	15,064	685	----	22	10	44	18	16,714

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Lehigh and Wilkes-Barre Coal Co.	Luzerne,	4	5	52	816	263	------	------	14	12	171	25	8	55	15	------	71	426	1,937
Lehigh Valley Coal Co.,	Luzerne,	7	36	------	517	92	------	------	27	27	121	28	21	59	12	4	53	207	1,211
Hudson Coal Co.,	Luzerne,	3	17	8	399	379	------	------	9	7	162	34	12	15	14	4	3	140	1,219
Wilkes-Barre Anthracite Coal Co.	Luzerne,	1	1	5	48	14	------	------	3	3	41	4	4	6	5	3	5	25	168
Red Ash Coal Co.,	Luzerne,	1	------	------	17	8	------	------	------	------	7	2	------	2	3	------	------	6	46
Totals,	Luzerne,	16	59	65	1,797	756	------	------	53	49	502	93	45	141	49	11	132	804	4,572

TABLE 3.—PART 1—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Lehigh and Wilkes-Barre Coal Co.	Luzerne,	--------	4	7	13	94	6	5	47	24	15	393	608	2,545
Lehigh Valley Coal Co.,		--------	2	4	11	53	3	3	15	20	9	188	308	1,519
Hudson Coal Co.,		1	4	11	32	43	8	--------	--------	18	10	182	309	1,519
Wilkes-Barre Anthracite Coal Co.		1	1	3	5	14	1	--------	6	--------	4	24	59	227
Red Ash Coal Co.,		1	3	4	8	25	2	2	10	7	2	165	229	275
Totals,		3	14	29	69	229	20	10	78	69	40	952	1,513	6,085

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	26	18	14	23	24	25	24	25	23	26	22	24	274
Lehigh Valley Coal Co.,		26	21	15	24	23	23	24	24	23	25	22	23	273
Hudson Coal Co.,		27	27	27	26	25	21	23	25	24	26	22	24	297
Wilkes-Barre Anthracite Coal Co.,		23	16	24	21	21	20	22	22	22	22	19	19	251
Red Ash Coal Co.,		17	------	------	------	------	------	11	20	18	20	15	21	122

TABLE 3.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married Mar. or single	Widows	Orphans	Colliery	County	Cause and location of accident
Feb. 10	George Dolan,	American,	Miner,	23	S.			Prospect,		Fall of coal at face of chamber.
28	Thomas Bartuski,	Russian,	Miner,	46	M	1	6	Prospect,		Fall of roof at face of chamber.
March 1	Gilbert Pratton,	English,	Miner,	39	M.	1	2	South Wilkes-Barre No. 5,		Fall of rock at face of gangway.
13	John Walisorviski,	Austrian,	Miner,	94	M.	1	1	Hillman Vein,		Fall of coal at face of chamber.
April 3	Peter Saska,	Austrian,	Miner,	42	M.	1	3	South Wilkes-Barre No. 5,		Fall of roof in cross-cut.
May 9	William Todress,	Lithuanian,	Miner,	49	M.	1	2	South Wilkes-Barre No. 5,		Fall of roof at face of chamber.
	Michael Skurkus,	Lithuanian,	Miner,	48	M.	1	5	Dorrance,		Premature blast at face of chamber.
14	Stanley Schutchi,	Polish,	Miner,	36	M.	1	3	Baltimore No 5		Instantly killed by fall of roof at face of chamber.
17	Stanley Varetsky,	Polish,	Miner's laborer,	25	M.	1	2			
June 5	William Bohn,	American,	Runner,	28	S.				Luzerne,	This catastrophe by which 92 persons were killed and 47 seriously injured, occurred at the Baltimore Tunnel, No. 5 Colliery, of the Hudson Coal Company, near Wilkes-Barre, June 5. Owing to the magnitude of the disaster a most careful investigation was made as to the cause. A commission of 6 inspectors made a thorough and exhaustive study of the mine, but notwithstanding the carefulness of their work, the cause was not definitely determined. The explosion was due to the ignition of powder on a trip of 13 cars. The investigation showed that the trip was stationary at the time the accident occurred and that the motor was uncoupled from the trip. The explosion occurred on the tenth car from the motor about 35 feet from the mine entrance. Powder and men were carried in the same cars, namely, the tenth and thirteenth, and with the men were lamps and pipes.
	John Brochaski,	Polish,	Miner's laborer,	52	M.	1	3			
	Joseph Borden,	American,	Laborer,	27	M.	1	2			
	Oscar Bidwell,	American,	Miner,	27	M.	1	1			
	Michael Burcha,	Austrian,	Miner's laborer,	34	M.	1	1			
	George Bunza,	Polish,	Miner's laborer,	51	S.					
	Edmund Brew,	Polish,	Miner,	27	M.	1				
	Felix Boritz,	Polish,	Miner's laborer,	27	M.	1	2			
	Michael J. Connell,	American,	Miner,	53	M.	1	1			
	Joseph Chesnock,	Austrian,	Laborer,	47	M.	1	5			
	Michael Kotlarski,	Polish,	Miner's laborer,	32	M.	1	3			
	Alexander Cichon,	Austrian,	Miner,	32	M.	1	2			
	Michael Connor,	American,	Driver,	24	S.			Baltimore No. 5		
	Fred Dippenworth,	German,	Miner,	36	M.	1	2			
	Anthony Dzenis,	Polish,	Miner,	27	M.	1	2			
	Andrew Drevenock,	Polish,	Miner,	38	M.	1	5			
	Stephen Demchak,	Polish,	Miner's laborer,	32	M.	1	2			
	Stanley Forestel,	American,	Runner,	21	S.					
	Andrew Felecto,	Polish,	Miner's laborer,	30	M.	1	4			
	Bernard Gillespie,	Irish,	Miner,	54	M.	1	1			
	Eugene Getner,	American,	Runner,	19	S.					
	Edward George,	American,	Miner,	28	M.	1	2			
	John Galongo,	Polish,	Miner's laborer,	40	S.					
	George Hanza,	American,	Driver,	19	S.					
	Joseph Hart,	American,	Driver,	18	S.					
	Victor Harris,	American,	Runner,	20	S.					

	Michael Harris,	American,	Headman,	24	M.	1	2			It appears that the trolley wire was out of a hanger a short distance inside the mine. The trip was stopped when signaled and advised of the condition of the trolley wire. The motor was uncoupled and the trip left standing. The motorman ran his motor slowly to a point just inside of the Stanton vein or about 25 feet inside the hanger in question. He stopped his motor, got off and turned around facing the mouth of the tunnel just as the explosion occurred.
	William J. Hogan,	American,	Laborer,	27	M.	1	1			
	James Hern,	American,	Miner's laborer,	19	S.					
	William Homick,	Russian,	Miner,	48	M.	1	3			
	John D. Jones,	American,	Miner,	38	S.					
	Charles Yourcip,	Austrian,	Miner's laborer,	42	M.	1	4			
	George Kubick,	Polish,	Miner,	47	M.	1	1			
	Walter Kubick,	American,	Driver,	18	S.					
	Andrew Kimoga,	Austrian,	Miner,	28	M.	1	2			
	George Kleper,	Polish,	Miner,	50	M.	1	5			
	Powell Kuda,	Austrian,	Miner's laborer,	45	S.					
	Harry Linteski,	Polish,	Miner,	39	M.	1	5			
	Patrick Lenahan,	American,	Bratticeman,	43	M.	1	3			
	Michael Lestanes,	Polish,	Miner,	30	M.	1	4			
	Joseph Lipenski,	Austrian,	Miner's laborer,	44	S.					
	James J. McCloskey	American,	Miner,	36	M.	1	1			
	John McCloski,	Polish,	Miner,	32	M.	1			Luzerne,	
	Charles Mantvile,	Russian,	Miner's laborer,	48	S.					
	James McGuire,	American,	Driver,	32	S.					
	Paul Milchick,	Polish,	Miner's laborer,	35	M.	1	5			
	Andrew Maraski,	American,	Driver,	18	S.					
	Anthony Narkunas,	Austrian,	Laborer,	50	M.	1	3			
	Edward Oliver,	American,	Driver,	17	S.					
	Patrick O'Malley,	Irish,	Tracklayer,	57	M.	1	1			
	Charles Popherdinis,	Russian,	Miner,	37	M.	1	3			
	Michael Platcha,	Russian,	Miner,	30	M.	1		Baltimore No. 5,		
	Llewellyn Parrot,	Welsh,	Miner,	60	M.	1	2			
	John Kwochzca,	Russian,	Miner,	34	M.	1	1			
	John Rushton,	American,	Tracklayer,	38	M.	1	7			
	Joseph Pomezin,	Russian,	Miner's laborer,	40	M.	1	4			
June 5	John Poworish,	Austrian,	Miner,	35	M.	1	4			
	Joseph Ropicki,	American,	Driver,	19	S.					
	Anthony Stanaitis,	Russian,	Miner,	49	M.	1	2			
	William Stenika,	Polish,	Miner,	50	S.					
	Samuel Subiack,	Austrian,	Miner,	25	M.	1	1			
	Michael Nestor,	Austrian,	Miner,	32	M.	1	2			
	Stanley Smykel,	Polish,	Miner's laborer,	33	M.	1	2			
	Slaca Pominski,	Polish,	Runner,	17	S.					
	Stanley Tavgonski,	Russian,	Miner,	31	M.	1	2			
	Samuel Topicki,	Austrian,	Miner's laborer,	38	M.	1	5			
	John J. Van Nort,	Austrian,	Miner,	41	M.	1	1			
	Adam Woycik,	Polish,	Miner's laborer,	28	M.	1	3			
	Costy Bichsky,	Polish,	Miner,	48	M.	1	8			
	Richard Weichard,	American,	Miner,	30	S.					
	John Wallace,	Polish,	Miner,	46	M.	1	2			
	Michael Washick,	American,	Miner,	28	M.	1				
	Joseph Wozack,	Polish,	Miner's laborer,	54	M.	1				
	Frank Weichart,	American,	Miner's laborer,	50	M.	1	7			
	Joseph Yaris,	American,	Driver,	18	S.					
	John Yelinski,	Polish,	Miner's laborer,	25	S.					

TABLE 4.—Fatal accidents inside and outside—Continued.

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
		Nicholas Fedash,	Polish,	Miner,	29	M.	1	1			
		Frank Gasnor,	Austrian,	Miner,	39	M.	1	3			
		John Greglock,	American,	Miner,	38	M.	1	4			
		Joseph Hopper,	Russian,	Miner,	30	M.	1	5			
		Andrew Hraboir,	Austrian,	Miner,	42	M.	1				
		Michael Kahwti,	Austrian,	Miner,	28	M.	1	4			
		James Murphy,	American,	Runner,	23	M.	1				
		John Miloskie,	Russian,	Laborer,	59	M.	1	1	Baltimore No. 5,		
June	5	Lasio Mergadles,	Polish,	Miner's laborer,	42	M.	1				
		Joseph Paluski,	Polish,	Miner,	37	M.	1	3			
		Michael Remakus,	American,	Miner,	32	M.	1	2			
		John Staveyash,	Polish,	Miner,	35	M.	1	3			
		Fred Spader,	American,	Bratticeman,	32	S.					
		Joseph Stermus,	Polish,	Miner's laborer,	30	S.					
		John Yarkuski,	Polish,	Miner,	30	M.	1				
		Alex. Trushik,	Polish,	Miner,	29	M.	1	1			
	28	Ignatz Spiligas,	Russian,	Doorman,	75	M.	1		Dorrance,	Luzerne,	Motor struck door at which he was standing.
July	1	Michael Kometz,	Austrian,	Miner's laborer,	22	S.			Baltimore No. 5,		Fall of roof in working place.
	23	Stanley Bonavage,	Russian,	Miner's laborer,	36	M.	1	5	Baltimore No. 5,		Falling timber at face of gangway.
	26	Stephen Britch,	Slavonian,	Car loader,	53	M.	1		Baltimore No. 5,		Railroad cars near breaker. Outside.
Aug.	9	Archie Sutton,	American,	Motorman,	28	S.			Baltimore No. 5,		Fall of roof—timbers dislodged when motor got beyond control and crashed into trip standing near turn-out.
	23	John Yankowcy,	Polish,	Miner's laborer,	24	S.			Stanton No. 7,		Fall of roof in heading.
Oct.	4	Peter Yearna, Sr.,	Lithuanian,	Miner,	50	M.	1	4	Stanton No. 7,		Fall of roof at the face of gangway.
		Peter Yearna, Jr.,	Lithuanian,	Miner's laborer,	22	S.					
	27	Andrew Stenbee, Sr.,	Slavonian,	Rock unloader,	46	M.	1	4	Dorrance,		Derailed car on gangway.
	30	Joseph Larbinas,	Lithuanian,	Miner,	35	M.	1	2	Stanton No. 7,		Fall of coal at face of chamber.
Nov.	5	Michael Roszkowich,	Polish,	Miner,	38	M.	1		Prospect,		Burned by explosion of gas in face of cross-cut.
Dec.	11	John McPartland,	American,	Rock unloader,	49	M.	1		Dorrance,		Fall of coal in old chamber—unloading car of rock.
	12	Joseph Yunackie,	Russian,	Miner,	33	M.	1	4	Dorrance,		Fall of coal at face of cross-cut.
		August Stankewicz,	Russian,	Miner,	33	M.	1	2			
		John Hudock,	Austrian,	Laborer,	34	S.			Hillman Vein,		Asphyxiated at bore hole. Outside.

TABLE 5.—Serious non-fatal accidents insi e and outside (disability n t less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 3	George Kenny,	Russian,	Miner,	35	M.	Baltimore No. 5,		Premature bla t at face.
8	Frank Madam,	Austrian,	Miner,	31	M.	Hollenback No. 2,		Struck by piece of pipe on manway.
13	Paul Ruscavage,	Lithuanian,	Laborer,	49	M.	Stanton No. 7,		Caught by chain. Outside.
14	Wasil Rigalavage,	Polish,	Miner's laborer,	35	S.	South Wilkes-Barre No. 5,		Falling prop on gangway.
20	Henry Morgan,	American,	Foreman,	38	M.	Red Ash No. 2,		Mine cars on stripping.
	Oliver Harding,	Welsh,	Laborer,	37	M.	Stanton No. 7,		Burned by gas in chamber.
	Jo eph Benny,	Lithuanian,	Miner,	38	M.	South Wilkes-Barre No. 5,		Cars in chamber.
	D. C. Thomas,	Welsh,	Driver,	17	S.	Stanton No. 7,		Cars in airway.
22	John Halko,	Russian,	Miner,	27	S.	Baltimore No. 5,		Fall of coal in chamber.
	Andrew Brokoskie,	Slavonian,	Miner,	33	M.	Stanton No. 7,		Fall of roof in working place.
23	Anthony Lada,	Russian,	Runner,	17	S.	Prospect,		Struck by rope on slope.
25	Alex. Culada,	American,	Runner,	17	S.	Dorrance,		Cars on roadway.
27	Michael Rivet,	Lithuanian,	Miner,	31	M.	Stanton No. 7,		Burned by explo ion of gas at face.
28	John Herstick,	Slavonian,	Footman,	26	S.	Stanton No. 7,		Cars at foot of shaft—coupling.
30	Isaac James,	Welsh,	Miner's laborer,	39	M.	Hollenback No. 2,		Fall of top coal on slope.
Feb. 6	Robert Evans,	Welsh,	Driver,	49	S.	Stanton No. 7,	Luzerne,	Cars on plane.
March 1	Charles Sapariatus,	Lithuanian,	Miner,	30	M.	South Wilkes-Barre No. 5,		Fall of roof on gangway.
7	George Kriniskie,	Polish,	Miner's laborer,	31	S.	Hillman Vein,		Cars in room.
11	William Peeukonis,	Lithuanian,	Miner,	37	M.	Stanton No. 7,		Fall of roof on gangway.
21	Joseph Kolowskie,	Polish,	Miner,	36	M.	South Wilkes-Barre No. 5,		Falling from platform in gangway.
26	Joseph Urban,	Lithuanian,	Miner,	27	M.	Hillman Vein,		Cars on slope.
29	George Doliman,	Slavonian,	Driver,	21	S.	Hollenback No. 2,		Caught between car and prop on gangway.
April 15	Henry Bohm,	American,	Laborer,	22	S.	Baltimore No. 5,		Turning on leg coming down steps of breaker. Outside.
16	John Tomerlonis,	Ru sian,	Miner,	33	M.	Prospect,		Fall of roof in chamber.
18	Peter Rose,	American,	Laborer,	46	M.	Baltimore No. 5,		Falling from mule. Outside.
19	Anthony Bednekineva,	Polish,	Miner,	71	M.	South Wilkes-Barre No. 5,		Fall of coal from rib in chamber.
24	Lewis Pentell,	Italian,	Miner,	43	S.	Stanton No. 7,		Fall of roof in chamber.
28	Anthony Sinkeawizus,	Lithuanian,	Miner,	30	S.	Stanton No. 7,		Fall of roof in chamber.
May 7	George Kohl,	American,	Driver,	19	S.	Hollenback No. 2,		Caught in door on gangway.
31	Stanley Bulkus,	Lithuanian,	Miner,	34	M.	Stanton No. 7,		Fall of roof at face.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
	John Fedock,	Polish,	Runner,	40	S.			
	Patrick Fisher,	American,	Driver,	18	S.			
	James Fisher,	American,	Runner,	20	S.			
	Clemence Kershiner,	Russian,	Miner,	54	M.			
	Anthony Zabro,	Austrian,	Miner,	40	M.			
	Adam Brochaskie,	Russian,	Miner,	24	M.			
	Joseph Begner,	American,	Driver,	22	S.			
	Daniel Boyle,	American,	Miner's laborer,	30	S.			
	Charles Carasza,	Polish,	Miner's laborer,	35	M.			
	David J. Davis,	Welsh,	Miner,	45	S.			
	William J. Davis,	American,	Miner,	50	S.			
	George Gernitis,	Russian,	Miner,	55	M.			
	Victor Kakoraka,	Polish,	Miner,	28	M.			
	Michael Geolonge,	Polish,	Miner's laborer,	30	M.			
	William Neronofski,	Polish,	Miner's laborer,	28	S.			
June 5	Andrew Kempa,	Polish,	Miner's laborer,	35	M.			
	Frank Lowery,	American,	Driver,	18	S.	Baltimore No. 5,	Luzerne,	Explosion of powder in tunnel, due to ignition of powder on trip of 13 cars, about 35 feet from mine entrance.
	Peter Maskines,	Polish,	Miner,	50	M.			
	Metro Mistranski,	Austrian,	Miner's laborer,	33	M.			
	Tony Metlavage,	American,	Driver,	18	S.			
	Stanley Marchina,	American,	Miner's laborer,	35	S.			
	Edward Muraski,	American,	Runner,	20	S.			
	John Nestevenski,	Austrian,	Miner,	25	M.			
	Andrew Ondish,	Austrian,	Miner's laborer,	40	S.			
	William Oliver,	American,	Laborer,	25	M.			
	Joseph Parry,	American,	Miner,	50	M.			
	Steve Rabattine,	Polish,	Miner,	33	M.			
	Anthony Strenius,	American,	Driver,	17	S.			
	Stanley Rokoski,	Polish,	Miner's laborer,	29	S.			
	Thomas Sheridan,	Irish,	Miner,	50	M.			
13	Walter Latius,	Lithuanian,	Miner,	30	M.	South Wilkes-Barre No. 5,	Luzerne,	Fall of coal from rib in chamber.
20	Phillip R. Thomas,	American,	Assistant mine foreman,	51	M.	Prospect,		Flying coal from blast while passing chamber.
July 3	Dan Davis,	American,	Foreman,	52	M.	Prospect,		Burned by an explosion of gas on slope.
5	Benj. Walters Jr.,	American,	Runner,	19	S.	Stanton No. 7,		Jumping from runaway trip of cars on plane.
7	Mariani Anbaldi,	Italian,	Miner,	27	S.	Baltimore No. 5,		Caught between car and rib on gangway.
			Miner,	40	M.			
8	Charles China,	Polish,	Trackman,	22	M.	Baltimore No. 5,		Cars in chamber.
12	Russell Bassaler,	American,				Dorrance,		Struck by rope on slope.

July	14	Anthony Soyer,	Polish,	Miner,	51	M.	Stanton No. 7,			Flying piece of coal from pick in chamber.
	18	Frank Baranowski,	Polish,	Miner,	27	M.	Baltimore No. 5,			Fall of roof at face of chamber.
	21	David W. Reese,	Welsh,	Motorman,	48	W.	Stanton No. 7,			Struck by prop he was using to push loaded cars and motor in tunnel.
	26	Metro Karmush,	Slavonian,	Miner's laborer,	51	M.	Red Ash No. 2,			Fall of coal from face of stripping.
	28	Michael Kensavage,	Lithuanian,	Miner,	54	M.	Stanton No. 7,			Struck by piece of coal he was breaking with hammer near airway.
		Hiram Allen,	American,	Doorboy,	18	S.	South Wilkes-Barre No. 5,			Caught between top of car and roof on plane—riding.
Aug.	2	Anthony Machinist,	Lithuanian,	Footman,	42	M.	Baltimore No. 5,			Cars at shaft bottom—coupling.
	4	Michael Franchick,	Russian,	Footman,	16	S.	Prospect,			Cars on slope.
	5	John Pirchul,	American,	Miner's laborer,	22	S.	Baltimore No. 5,			Fall of roof at face.
	23	John Kudock,	Polish,	Miner,	35	M.	South Wilkes-Barre No. 5,			Hand caught in spreader hook when mules jerked car on gangway.
	26	John Rogall,	Polish,	Miner,	37	M.	Hillman Vein,			Lifting rock at face.
	27	Reese Lewis,	American,	Driver,	18	S.	Baltimore No. 5,			Mine cars. Outside.
Sept.	6	Michael Shetat,	Russian,	Driver,	17	S.	Baltimore No. 5,			Struck by rope on plane.
	8	Charles Martin,	Polish,	Miner,	52	M.	Stanton No. 7,			Fall of roof at face of chamber.
	12	George Belanshick,	American,	Doorboy,	17	S.	Stanton No. 7,			Cars in tunnel.
	19	Daniel Gluckanyz,	Austrian,	Miner's laborer,	40	M.	Baltimore No. 5,			Struck by piece of rock at face.
Oct.	8	John Soloski,	Polish,	Miner,	53	M.	Stanton No. 7,			Struck by piece of rock on slope.
	18	Griffith J. Evans,	Welsh,	Miner,	40	M.	South Wilkes-Barre No. 5,			Fall of coal at face of airway.
	27	Stanley Riscavage,	Polish,	Miner,	55	M.	Stanton No. 7,	Luzerne,		Fall of coal at face.
Nov.	4	Joseph Jasonis,	Polish,	Driver,	18	S.	Baltimore No. 5,			Running into pile of props on gangway while pulling trip.
	18	Owen L. Williams,	Welsh,	Runner,	28	M.	Stanton No. 7,			Cars on plane.
	19	Larry Dorsavage,	Polish,	Miner's laborer,	50	M.	Stanton No. 7,			Fall of coal at face.
		Thomas Brush,	Russian,	Miner,	58	M.	Baltimore No. 5,			Caught between car and rib on gangway.
	30	George Paul,	English,	Tracklayer,	47	M.	Baltimore No. 5,			Fall of roof on slope.
Dec.	2	Charles Toloczko,	Polish,	Miner's laborer,	27	M.	Baltimore No. 5,			Stepping on nail while laying chute.
	3	Joseph Stanley,	Polish,	Miner,	46	M.	South Wilkes-Barre No. 5,			Falling down chamber—setting up timber.
	11	Joseph Dickson,	Polish,	Miner,	46	M.	Prospect,			Piece of coal rolling down chamber.
	15	Andrew Mattis,	Russian,	Miner,	40	M.	Prospect,			Piece of rock rolling down chamber.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held May 6 and 7 in Wilkes-Barre. The Board of Examiners was composed of Thomas J. Williams, Mine Inspector, Wilkes-Barre; H. G. Davis, Superintendent, Wilkes-Barre; David L. John, Miner, Wilkes-Barre; John Harris, Miner, Wilkes-Barre.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

John Dane, John Branch Davis, David Thomas Davis, Lewis L. Davies, John Lawrence Fehlinger, James Morris, David John Roberts, Thomas Sayes, Wilkes-Barre; Richard Williams, Plains.

ASSISTANT MINE FOREMEN

William Ford Davis, Robert Joseph Morris, Naphtali Roberts, Wilkes-Barre; Walter Harrison Kivler, John Downing Martin, Plains; Morris Williams, Wilkes-Barre.

1919

TWELFTH DISTRICT.

Luzerne County.

D. T. Davis, Inspector, Wilkes-Barre

SUMMARY OF STATISTICS

Collieries in operation, (breakers)	8
Washeries in operation,	2
Mines in district,	33
Gaseous mines in operation,	29
Non-gaseous mines in operation,	4
Tons of coal shipped to market,	3,237,074
Tons used at mines for steam and heat,	276,668
Tons sold to local trade and used by employes,	131,520
Tons produced, (gross)	3,645,262
Persons employed inside,	5,001
Persons employed outside,	1,513
Persons employed outside between 14 and 21 years,	239
Persons employed inside between 16 and 21 years,	496
Fatal accidents inside,	17
Fatal accidents outside,	4
Serious non-fatal accidents inside,	56
Serious non-fatal accidents outside,	20
Tons produced per fatal accident inside,	214,427
Tons produced per fatal accident inside and outside,	173,584
Persons employed per fatal accident inside,	294
Persons employed per fatal accident outside,	378
Persons employed per fatal accident inside and outside,	310
Persons employed per non-fatal accident inside,	89
Persons employed per non-fatal accident outside,	76
Persons employed per non-fatal accident inside and outside,	86
Wives made widows,	17
Children made orphans,	39
Steam locomotives outside,	15
Compressed air locomotives inside,	8
Electric motors inside,	59
Cylindrical boilers,	9
Tubular boilers,	69
Steam engines of all classes,	431
Internal combustion engines (gas),	1
Electric dynamos,	15
Pumps of all classes,	126
Pumps delivering water to surface,	18
Air compressors,	15
Fans in use,	32

TABLE A

Production of Coal

Operators	Gross Tons
Hudson Coal Company,	1,166,984
Delaware, Lackawanna and Western Railroad Company,	1,046,614
Lehigh and Wilkes-Barre Coal Company,	827,556
Kingston Coal Company,	580,379
Plymouth Red Ash Coal Company,	21,237
Shawnee Coal Company,	2,492
Total,	3,645,262

Production By Counties

Luzerne,	3,645,262

TABLE B.—Accidents inside and outside, number of tons of coal pro duced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	5	1	6	13	6	19	233,397	89,768	1,748	480	2,228	349	480	134	80
Delaware, Lackawanna and We tern Railroad Co.,	4	2	6	24	12	36	261,654	43,609	1.196	292	1,488	299	146	50	24
Lehigh and Wilkes-Barre Coal Co.,	2	1	3	12	1	13	413,778	68,963	1,101	382	1,483	550	382	92	382
King-ton Coal Co.,	6	------	6	7	1	8	96,730	82,911	930	341	1,271	155	----------	133	341
Other Operator —no accidents,	------	------	------	------	------	------	----------	----------	26	18	44	----------	----------	----------	----------
Totals and averages,	17	4	21	56	20	76	214,127	65,094	5,001	1,513	6,514	294	378	89	76

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co.						
Plymouth No. 5,	Luzerne,	R. H. Buchanan,	Scranton,	Jacob Britton,	Plymouth,	Delaware & Hudson
Plymouth No. 3 Washery,						
Plymouth No. 5 Washery,						
Delaware, Lackawanna and Western Railroad Co.						
Woodward,	Luzerne,	Shelby D. Dimmick,	Scranton,	W. F. Powell,	Kingston,	D., L. & W.
Lehigh and Wilkes-Barre Coal Co.						
Nottingham No. 15,	Luzerne,	C. F. Huber,	Wilkes-Barre,	Douglas Bunting,	Wilkes-Barre,	C. R. R. of N. J.
Lance No. 11,						
Kingston Coal Co.						
Kingston No. 2,	Luzerne,	F. E. Zerbey,	Kingston,	Thomas H. Williams	Edwardsville,	D. & H., Penna., D., L. & W., C. R. R. of N. J., L. V.
Gaylord,				Ralph A. Smith,	Plymouth,	D. & H., Penna., D., L. & W., C. R. R. of N. J.
Plymouth Red Ash Coal Co.						
Plymouth Red Ash,	Luzerne,	W. S. Schlager,	Scranton,			D., L. & W.
Shawnee Coal Co.						
Shawnee,	Luzerne,			Frank S. Lewis,	Plymouth,	None

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Plymouth No. 5,	Luzerne,	1,053,721	36,725	29,620	1,120,066	285	2,228	6	19	791,200	48,349	133
Wasneries												
Plymouth No. 3,	Luzerne,	36	45,135		45,171	285	*					
Plymouth No. 5,		145	1,602		1,747		*					
		181	46,737		46,918							
Totals,		1,053,902	83,462	29,620	1,166,984		2,228	6	19	791,200	48,349	133
Delaware, Lackawanna and Western Railroad Co.												
Woodward,	Luzerne,	988,081	46,252	12,281	1,046,614	280	1,488	6	36	599,675	11,895	247,795
Lehigh and Wilkes-Barre Coal Co.												
Nottingham No. 15,	Luzerne,	430,649	63,338	28,699	522,686	271	905	3	7	216,950	11,219	275
Lance No. 11,		252,591	47,238	5,041	304,870	275	578		6	269,245	4,399	10,400
Totals,		683,240	110,576	33,740	827,556		1,483	3	13	486,195	15,618	10,675
Kingston Coal Co.												
Kingston No. 2,	Luzerne,	368,713	18,500	43,074	430,287	283	906	2	4	144,000	6,476	2,770
Gaylord,		123,927	17,750	8,415	150,092	281	365	4	4	21,875	9,025	
Totals,		492,640	36,250	51,489	580,379		1,271	6	8	165,875	15,501	2,770
Plymouth Red Ash Coal Co.												
Plymouth Red Ash,	Luzerne,	17,527	128	3,582	21,237	263	36				550	3,000
Shawnee Coal Co.												
Shawnee,	Luzerne,	1,684		808	2,492	232	8			1,875	475	
Grand totals,		3,237,071	276,668	131,520	3,645,262		6,514	21	76	2,044,820	92,388	264,373

*Included with Plymouth No. 5 Colliery.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.	Luzerne,	----	--------	30	7,740	240	23,369	----	--------	6	1,050	61	48,270	7	4,600	300	----	6	----	----	7	6,650
Delaware, Lackawanna and Western Railroad Co.,		----	--------	11	2,875	36	6,342	----	--------	1	1,000	14	9,600	4	4,400	38	----	1	----	39	1	1,500
Lehigh and Wilkes-Barre Coal Co.,		----	--------	24	5,550	117	10,544	----	--------	----	--------	42	19,910	6	5,820	238	----	1	8	----	5	13,380
Kingston Coal Co.		9	2,250	4	1,200	38	4,700	----	--------	2	192	9	3,425	1	1,000	102	----	7	----	20	2	2,950
Plymouth Red Ash Coal Co.,		----	--------	----	--------	----	--------	----	--------	4	195	----	--------	----	--------	3	----	----	----	----	----	--------
Shawnee Coal Co.,		----	--------	----	--------	----	--------	1	22	2	8,600	----	--------	----	--------	2	----	----	----	----	----	--------
Totals,		9	2,250	69	17,365	431	44,955	1	22	15	11,037	126	81,205	18	15,820	683	----	15	8	59	15	24,480

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																		Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Luzerne,	4	25	12	613	369	4	3	------	------	244	42	19	16	13	2	63	319	1,748
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	5	------	27	487	127	------	------	41	41	83	33	30	56	10	11	44	201	1,196
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	3	3	36	424	185	------	------	7	6	117	31	11	39	29	1	52	181	1,101
Kingston Coal Co.,	Luzerne,	5	11	7	365	237	------	------	22	20	80	25	8	46	10	4	3	87	930
Plymouth Red Ash Coal Co.,	Luzerne,	1	1	------	6	10	------	------	------	------	2	------	------	------	------	------	------	------	20
Shawnee Coal Co.,	Luzerne,	------	------	------	2	1	------	------	------	------	2	1	------	------	------	------	------	------	6
Totals,		18	40	76	1,897	929	4	3	70	67	528	132	68	148	53	18	162	788	5,001

TABLE 3.—PART 1—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Luzerne,	1	4	13	14	73	8			28	14	325	480	2,228
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	1	2	3	19	32	4		38		7	186	292	1,488
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,		2	5	12	66	1	2	47	6	8	233	382	1,483
Kingston Coal Co.,	Luzerne,	2	3	9	38	37	10	5	2	20	4	211	341	1,271
Plymouth Red Ash Coal Co.,	Luzerne,	1	1	1	1	2			2		1	7	16	36
Shawnee Coal Co.,	Luzerne,					1				1			2	8
Totals,		5	12	31	84	211	23	7	89	55	34	962	1,513	6,514

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Luzerne,	16	27	27	26	25	23	24	20	24	26	22	25	285
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	26	17	16	24	25	25	26	24	24	26	22	25	280
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	26	17	14	24	24	23	25	25	24	26	21	24	273
Kingston Coal Co.,	Luzerne,	26	16	20	24	25	24	26	24	24	26	22	25	282
Plymouth Red Ash Coal Co.	Luzerne,	25	17	24	18	25	24	25	15	20	23	22	25	263
Shawnee Coal Co.,	Luzerne,	22	18	20	19	15	10	18	17	22	23	24	24	232

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 24	John Cramer,	American,	Tracklayer,	50	M.	1	1	Plymouth No. 5.	Luzerne,	Struck by falling telephone pole. Outside.
Feb. 4	John Molinski,	Polish,	Miner,	42	M.	1	3	Gaylord,		Fall of rock from roof in tunnel.
March 10	Andrew Elko,	Austrian,	Miner,	44	M.	1	5	Plymouth No. 5.		Fall of roof at face of chamber.
26	Samuel Jones,	Welsh,	Miner,	67	M.	1		Woodward,		Fall of rock at face of chamber.
	Stanley Venderkanizl,	Austrian,	Miner's laborer,	49	M.	1	2	Woodward,		Fall of rock at face of chamber.
April 22	Edward Kulp,	American,	Miner's laborer,	27	M.	1	1	Gaylord,		Fall of rock at face.
24	William Brennan,	American,	Engineer,	33	M.	1	5	Nottingham No. 15.		Run over by locomotive—fell from cab. Outside.
May 3	Michael Zavatsky,	Slavonian,	Miner's laborer,	29	M.	1		Kingston No. 2.		Fall of rock at face.
7	John Servinski,	Polish,	Miner,	54	M.	1		Woodward,		Premature blast at face of gangway.
June 7	Stanley Spinalski,	Polish,	Miner's laborer,	28	S.			Plymouth No. 5.		Fall of coal at face of pillar.
13	Stephen Inan,	Slavonian,	Miner,	47	M.	1	3	Plymouth No. 5.		Fall of coal at face.
Aug. 29	Joseph Dobry,	Polish,	Miner,	35	M.	1	4	Plymouth No. 5.		Thrown against pillar by explosion of gas on gangway.
Sept. 25	George Lubbock,	English,	Miner,	53	M.	1		Gaylord,		Flying coal from delayed blast on gangway.
29	Joseph Miller,	Lithuanian,	Miner,	29	M.	1	3	Kingston No. 2.		Fall of rock at face.
Oct. 14	Frank Krempa,	Russian,	Loader,	31	S.			Woodward,		Run over by railway car. Outside.
15	William Tomashefski	Polish,	Miner,	42	M.	1	1	Nottingham No. 15.		Fall of slate from roof at face of adjoining chamber.
Nov. 8	Frank Soboleski,	Polish,	Miner,	39	M.	1	6	Gaylord,		Fall of roof on plane—cleaning up fall.
19	John Dovershek,	American,	Runner,	29	S.			Plymouth No. 5.		Fall of slate on gangway.
Dec. 2	William Watkins,	American,	Machine helper,	45	S.			Woodward,		Falling from breaker. Outside.
30	Daniel Jenkins,	American,	Miner,	39	M.	1	4	Nottingham No. 15,		Timber falling in chamber.
31	Paul Makalevicz,	Lithuanian,	Miner,	46	M.	1	1	Woodward,		Run over by loaded car at face of airway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	National ity of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 6	Libers Villona,	Italian,	Laborer,	28	M.	Woodward,		Run over by wagon. Outside.
11	John A. Yaglofsky,	Polish,	Miner,	57	M.	Woodward,		Fall of coal at face of chamber.
21	George Yenchak,	Slavonian,	Brakeman,	31	S.	Woodward,		Caught between bumpers of cars. Outside.
23	Patrick Kearns,	American,	Teamster,	19	S.	Plymouth No. 5,		Falling off wagon. Outside.
	George Semanavitch,	Lithuanian,	Miner,	46	M.	Woodward,		Fall of coal at face of chamber.
27	Joseph Mertis,	American,	Runner,	22	S.	Kingston No. 2,		Derailed cars—riding on cars.
29	Harry Sorber,	American,	Laborer,	22	S.	Woodward,		Struck by rail that he was using to rerail car. Outside.
30	Patrick Hardiman,	American,	Miner,	47	S.	Gaylord,		Fall of rock from rib—cleaning a fall.
Feb. 3	Joe Nice,	Austrian,	Miner,	35	M.	Gaylord,		Struck by piece of rock.
5	James Price,	American,	Laborer,	18	S.	Plymouth No. 5,		Derailed car—riding on car. Outside.
6	Mike Shenit ki,	Lithuanian,	Miner's laborer,	56	M.	Lance No. 11,		Premature blast at face of chamber.
7	Jos. Edunk,	Lithuanian,	Laborer,	51	M.	Lance No. 11,		Struck by mule. Outside.
8	James Rowe,	American,	Footman,	37	M.	Plymouth No. 5,		Caught between car and rib.
10	Charles Kowalski,	Polish,	Miner,	34	M.	Woodward,		Fall of rock.
14	Charles A. Kovitch,	Polish,	Doorboy,	17	S.	Woodward,		Burned by gas.
	Richard Jenkins,	American,	Brakeman,	22	S.			
	John Goalong,	Italian,	Miner's laborer,	42	M.	Woodward,	Luzerne,	Bank sliding in and breaking bracing on gangway.
15	Michael Polock,	Slavonian,	Miner's laborer,	48	M.	Plymouth No. 5,		Struck by pump that was being moved on a plank.
18	Joseph Subacz,	Lithuanian,	Miner,	39	M.	Woodward,		Burned by gas.
21.	John Androsik,	Slavonian,	Miner's laborer,	53	M.	Plymouth No. 5,		Fall of coal from rib.
25	Lewis Wandell,	American,	Laborer,	68	M.	Plymouth No. 5,		Rolling timber. Outside.
March 5	William Shedonis,	Lithuanian,	Miner's laborer,	45	M.	Woodward,		Fall of coal.
	George Dershonis,	Lithuanian,	Miner,	60	M.			
6	John Nezgoda,	Polish,	Miner,	56	M.	Plymouth No. 5,		Struck by prop while lifting it.
7	Joseph Rumovicz,	Polish,	Miner,	48	S.	Woodward,		Fall of coal from face.
8	Jo eph Novack,	Slavonian,	Laborer,	53	M.	Kingston No. 2,		Cars in rock dump.
10	John Dailey,	Irish,	Mason,	72	M.	Woodward,		Derailed car.
17	William Parsons,	American,	Slatepicker,	15	S.	Woodward,		Machinery. Outside.
22	Mike Billutas,	Russian,	Miner's laborer,	45	M.	Nottingham No. 15,		Struck by piece of coal that slid from top of pile.
25	Edward Wishinskie,	Polish,	Miner,	30	M.	Gaylord,		Fall of rock from roof.
26	Martin Dooley,	Polish,	Miner's laborer,	26	M.	Kingston No. 2,		Fall of coal from rib.
30	David Evans,	American,	Laborer,	28	M.	Woodward,		Falling from railroad car. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
April 3	Joe Kosack,	Polish.	Miner's laborer,	29	M.	Gaylord,	Luzerne,	Struck by piece of rock.
8	Jos. Domanoskie,	Slavonian,	Miner,	51	M.	Lance No. 11,		Fall of rock in tunnel.
	James Ashman,	American,	Pipe-fitter,	27	M.	Plymouth No. 5,		Struck by piece of iron. Outside.
17	Edward Mechonics,	Lithuanian,	Slatepicker,	66	M.	Kingston No. 2,		Struck by flying coal. Outside.
May 1	Charles Ye akanes,	Lithuanian,	Miner,	38	M.	Lance No. 11,		Fall of rock on slope.
2	Philip Jones,	Welsh.	Bratticeman,	55	M.	Woodward,		Caught between bumpers of cars.
3	Stephen Kobli h,	Russian,	Miner's laborer,	32	M.	Nottingham No. 15,		Overcome by gas fumes working on new air return.
7	Benedict Battory,	Polish,	Miner,	55	M.	Plymouth No. 5,		Struck by piece of timber.
16	Peter Litz,	Polish,	Miner,	40	M.	Lance No. 11,		Flying piece of coal from rib.
31	Edward Reese,	Welsh,	Miner,	52	M.	Nottingham No. 15,		Fall of coal from rib.
June 6	Patrick McGill,	Irish,	Laborer,	49	S.	Woodward,		Car door falling.
7	Anthony Doraskievz,	American,	Runner,	20	S.	Plymouth No. 5,		Struck by car.
14	Henry Shone,	Engli h,	Footman,	33	M.	Woodward,		Struck by car that was being put on cage.
18	Monroe Miller,	American,	Loader,	36	M.	Woodward,		Falling off car. Out ide.
July 2	Harry Onchura,	Polish,	Companyman,	31	S.	Nottingham No. 15,		Lifting iron rail.
10	Costic Kristo,	Polish,	Miner,	42	M.	Nottingham No. 15,		Burned by gas ignited by naked light on gangway.
21	Rolland Salinas,	Lithuanian,	Miner,	39	M.	Woodward,		Fall of rock from roof.
25	Joseph Yososky,	Lithuanian,	Miner,	50	M.	Woodward,		Fall of coal at face.
28	Walter Kluzinski,	Polish,	Miner,	46	M.	Nottingham No. 15,		Caught between car and roof-riding on gangway.
31	Michael Stiffany,	Italian,	Miner's laborer,	33	M.	Woodward,		Piece of rock falling down shaft.
	John Mickey,	Polish,	Miner's laborer,	38	M.	Plymouth No. 5,		Fall of coal at face.
	Charles Sznsez,	Polish,	Miner,	40	M.			
Aug. 2	Charles Wachnicki,	Polish,	Miner,	45	M.	Plymouth No. 5,		Fall of rock at face.
11	Jacob Malonis,	Polish,	Miner,	40	M.	Woodward,		Piece of coal bursting in hand—loading car.
12	John Bednarick,	Slavonian,	Miner,	37	M.	Plymouth No. 5,		Loading car.
18	John J. Williams,	Welsh.	Carpenter,	54	M.	Lance No. 11,		Fall of rock in chamber.
20	Joseph Chabala,	American,	Slatepicker,	17	S.	Plymouth No. 5,		Falling from breaker. Outside.

Sept.	5	Michael Adams,	American,	Laborer,	17	S.	Woodward,		Struck by wooden rail. Outside.
		Benjamin Wallace,	Russian,	Laborer,	43	M.	Woodward,		Car door falling. Outside.
	6	Hugh Kelly,	Irish,	Laborer,	28	S.	Woodward,		Caught in cog wheel of machinery. Outside.
		William Keronzie,	Polish,	Doorboy,	17	S.	Woodward,		Derailed car.
	9	William Publick,	Polish,	Miner,	53	M.	Nottingham No. 15,		Fall of coal at face.
	19	John Spissak,	Austrian,	Loader,	55	M.	Plymouth No. 5,		Car door falling. Outside.
	22	Peter Orgurgus,	Lithuanian,	Driver,	12	S.	Woodward,		Caught between derailed car and pillar.
Oct.	3	Michael Ferris,	Slavonian,	Miner's laborer,	49	M.	Woodward,		Fall of coal at face.
	11	John Gorzoski,	Polish,	Driver,	18	S.	Woodward,		Caught in spreader hook and dragged by team.
	13	Daniel Metzgar,	American,	Blacksmith,	43	M.	Woodward,	Luzerne,	Burned by electric wire that he picked up. Outside.
	15	John Harris,	American,	Iron worker,	33	M.	Woodward,		Struck by flying rivet. Outside.
	17	George Malast,	American,	Runner,	20	S.	Plymouth No. 5,		Run over by car.
Nov.	1	John Reese,	American,	Electrician,	30	M.	Woodward,		Falling pole. Outside.
	18	William H. Carver,	American,	Miner,	30	M.	Plymouth No. 5,		Fall of rock at face.
	26	Michael Astrovich,	Polish,	Miner's laborer,	25	S.	Woodward,		Fall of coal from pillar.
Dec.	1	William McGeorge,	American,	Miner,	55	M.	Plymouth No. 5,		Struck by piece of coal at face.
	22	Alexander Volutkavage,	Polish,	Miner,	37	M.	Woodward,		Flying coal from pick at face.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Plymouth, May 6 and 7. The Board of Examiners was composed of D. T. Davis, Mine Inspector; Thomas H. Williams, Superintendent, Kingston; William H. Chappell, Miner, Plymouth; Lewis R. Thomas, Miner, Edwardsville.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Joseph Cummings, Plymouth; Albert L. Knecht, Larksville.

ASSISTANT MINE FOREMEN

Edward F. Burns, John Boney, Thomas P. Evans, Ignatz Jablonski, Patrick J. Heffernan, William W. Jones, John F. Lloyd, James O'Rourke, Plymouth; George W. Carpenter, Frank Kulkowski, Anthony Tempran, George Kneise, Larksville; James Cooke, William Lewis, Richard R. Roberts, Edwardsville; William B. Gaines, Kingston.

1919

THIRTEENTH DISTRICT.

Luzerne County.

Frank Kettle, Inspector, Nanticoke.

SUMMARY OF STATISTICS.

Collieries in operation (breakers)	10
Washeries in operation	1
Mines in district	30
Gaseous mines in operation,	25
Non-gaseous mines in operation,	5
Tons of coal shipped to market,	3,565,563
Tons used at mines for steam and heat,	348,722
Tons sold to local trade and used by employes,	47,892
Tons produced (gross)	3,962,177
Persons employed inside,	5,130
Persons employed outside,	1,440
Persons employed inside between 16 and 21 years,	412
Persons employed outside between 14 and 21 years,	267
Fatal accidents inside,	28
Fatal accidents outside,	1
Serious non-fatal accidents inside,	37
Serious non-fatal accidents outside,	7
Tons produced per fatal accident inside,	141,507
Tons produced per fatal accident inside and outside,	136,626
Persons employed per fatal accident inside,	184
Persons employed per fatal accident outside,	1,440
Persons employed per fatal accident inside and outside,	227
Persons employed per non-fatal accident inside,	139
Persons employed per non-fatal accident outside,	206
Persons employed per non-fatal accident inside and outside,	149
Wives made widows,	19
Children made orphans,	40
Steam locomotives outside,	14
Compressed air locomotives inside,	4
Electric motors inside,	103
Electric motors outside,	6
Cylindrical boilers,	10
Tubular boilers,	70
Steam engines of all classes,	212

Electric dynamos,	5
Pumps of all classes,	123
Pumps delivering water to surface,	35
Air compressors,	12
Fans in use,	29

TABLE A

Production of Coal

Operators	Gross Tons
Delaware, Lackawanna and Western Railroad Company	2,169,663
Lehigh and Wilkes-Barre Coal Company	1,052,968
Lehigh Valley Coal Company	439,057
Pittston Coal Mining Company	129,276
George F. Lee Coal Company	91,963
West Nanticoke Coal Company	76,383
Acher and Jermyn	2,867
Total	3,962,177

Production by Counties

Luzerne	3,962,177

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Delaware, Lackawanna and Western Railroad Co.,	14	------	14	18	3	21	154,976	120,537	2,535	600	3,135	181	----------	141	200
Lehigh and Wilkes-Barre Coal Co.,	7	------	7	11	2	13	150,424	95,724	1,459	467	1,926	222	----------	133	233
Lehigh Valley Coal Co.,	6	------	6	5	------	5	73,176	87,811	634	174	808	105	----------	127	----------
Pittston Coal Mining Co.,	1	------	1	1	------	1	129,276	129,276	159	75	234	159	----------	159	----------
George F. Lee Coal Co.,	------	------	------	1	1	2	----------	91,963	204	51	255	----------	----------	204	51
West Nanticoke Coal Co.,	------	1	1	1	1	2	----------	76,383	139	63	202	----------	63	139	63
Acher and Jermyn,	------	------	------	------	------	------	----------	----------	----------	10	10	----------	----------	----------	----------
Totals and averages,	28	1	29	37	7	44	141,507	107,086	5,130	1,440	6,570	184	1,440	139	206

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Delaware, Lackawanna and Western Railroad Co.						
Truesdale,	Luzerne,	S. D. Dimmick,	Scranton,	P. H. Dever,	Nanticoke,	D., L. & W.
Loomis,				David Lloyd,	Wilkes-Barre, R. D. No. 1.	
Avondale,				Hayne Caruthers,	Plymouth, R. D. No. 1	
Avondale Washery,**						
Lehigh and Wilkes-Barre Coal Co.						
Sugar Notch No. 9,	Luzerne,	C. F. Huber,	Wilkes-Barre,	Douglas Bunting,	Wilkes-Barre,	C. R. R. of N. J.
Maxwell No. 20,						
Buttonwood No. 22,						
Lehigh Valley Coal Co.						
Franklin,	Luzerne,	Thomas Thomas,	Wilkes-Barre,	P. S. Warriner,	Wilkes-Barre,	Lehigh Valley.
Warrior Run,						
Pittston Coal Mining Co.						
Hadleigh,	Luzerne,	C. M. O'Boyle,	West Pittston,	F. E. Ward,	Ashley,	C. R. R. of N. J.
George F. Lee Coal Co.						
Chauncey,	Luzerne,	George F. Lee,	Wilkes-Barre,			D., L. & W.
West Nanticoke Coal Co.						
West Nanticoke,	Luzerne,	A. D. W. Smith,	Philadelphia,	E. W. Davis,	Kingston,	Pennsylvania.
Acher and Jermyn.						
Black Creek Washery,	Luzerne,	James McDonald,	Nanticoke,	James McDonald,	Nanticoke,	Pennsylvania.

**Idle.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (Gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Delaware, Lackawanna, and Western Railroad Co.												
Truesdale,	Luzerne,	1,129,075	91,355	6,134	1,226,564	277	1,667	6	13	522,350	93,101	369,034
Loomis,	Luzerne,	708,553	46,658	5,735	760,946	270	995	5	5	----------	13,750	483,295
Avondale,	Luzerne,	150,619	31,534	----------	182,153	237	473	3	3	58,100	5,821	39,817
Totals,		1,988,247	*169,547	11,869	2,169,663	--------	3,135	14	21	569,450	112,672	892,146
Lehigh and Wilkes-Barre Coal Co.												
Sugar Notch No. 9,	Luzerne,	360,634	22,626	6,651	389,911	274	769	1	2	30,725	19,958	187,871
Maxwell No. 20,	Luzerne,	398,730	42,124	17,469	458,323	270	819	4	6	84,475	13,270	205,930
Buttonwood No. 22,	Luzerne,	162,085	40,473	2,176	204,734	263	407	2	5	11,925	6,299	102,575
Totals,		921,449	105,223	26,296	1,052,968	--------	1,926	7	13	127,125	39,527	496,376
Lehigh Valley Coal Co.												
Franklin,	Luzerne,	318,814	41,267	6,226	366,307	249	693	5	3	69,550	14,230	116,550
Warrior Run,†	Luzerne,	55,328	16,805	617	72,750	†	115	1	2	500	27,075	----------
Totals,		374,142	58,072	6,843	439,057	--------	808	6	5	70,050	41,305	116,550
Pittston Coal Mining Co.												
Hadleigh,	Luzerne,	113,340	15,000	936	129,276	269	234	1	1	----------	28,000	1,000
George F. Lee Coal Co.												
Chauncey,	Luzerne,	89,415	600	1,948	91,963	274	255	--------	2	6,875	13,200	700
West Nanticoke Coal Co.												
West Nanticoke,	Luzerne,	76,143	240	----------	76,383	215	202	1	2	7,300	5,795	1,270
Acher and Jermyn.												
Black Creek Washery,	Luzerne,	2,827	40	----------	2,867	209	10	--------	--------	----------	----------	----------
Grand totals,		3,565,563	348,722	47,892	3,962,177	--------	6,570	29	44	771,800	250,499	1,508,642

*106,505 tons used at other plants.

†Coal prepared at Prospect breaker, 11th District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant: Boilers: Cylindrical: Number	Power plant: Boilers: Cylindrical: Total horse power	Power plant: Boilers: Tubular: Number	Power plant: Boilers: Tubular: Total horse power	Power plant: Engines: Steam engines (all classes): Number	Power plant: Engines: Steam engines (all classes): Total horse power	Power plant: Engines: Internal combustion engines (gas): Number	Power plant: Engines: Internal combustion engines (gas): Total horse power	Power plant: Engines: Electric dynamos (all classes): Number	Power plant: Engines: Electric dynamos (all classes): Total kilowatts	Pumps: Total number	Pumps: Total capacity in gallons per minute.	Pumps: Pumps delivering water to surface: Number	Pumps: Pumps delivering water to surface: Approximate number of gallons per minute	Haulage: Horses and mules	Haulage: Locomotives: Gasoline	Haulage: Locomotives: Steam	Haulage: Locomotives: Air	Haulage: Locomotives: Electric	Air compressors: Number	Air compressors: Total capacity in cubic feet per minute.
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	10	1,695	10	3,018	40	11,690	----	--------	1	300	63	28,420	20	16,550	52	----	5	----	99	4	4,700
Lehigh and Wilkes-Barre Coal Co.,		----	--------	36	6,918	126	16,645	----	--------	1	300	33	17,827	11	6,907	229	----	2	3	5	6	10,464
Lehigh Valley Coal Co.,		----	--------	21	3,300	37	3,650	----	--------	1	30	19	3,300	3	3,000	138	----	3	1	----	1	1,620
Pittston Coal Mining Co.,		----	--------	2	550	9	614	----	--------	2	400	5	2,700	1	500	14	----	2	----	3	1	200
George F. Lee Coal Co.,		----	--------	1	160	----	--------	----	--------	----	--------	3	1,800	----	--------	17	----	----	----	2	----	--------
West Nanticoke Coal Co.,†		----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	25	----	2	----	----	----	--------
Totals,		10	1,695	70	13,946	212	32,509	----	--------	5	1,030	123	54,047	35	26,957	475	----	14	4	109	12	16,984

†Power purchased.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	10	30	20	1,092	502	----	----	94	94	62	55	60	70	34	25	63	324	2,535
Lehigh and Wikes Barre Coal Co.,	Luzerne,	8	4	33	604	233	----	----	5	5	116	23	22	10	18	1	63	319	1,459
Lehigh Valley Coal Co.,	Luzerne,	2	19	----	276	60	----	----	1	1	102	18	8	21	15	1	16	94	614
Pittston Coal Mining Co.,	Luzerne,	1	1	2	98	20	----	----	5	5	16	3	----	3	3	1	1	----	159
George F. Lee Coal Co.,	Luzerne,	1	2	1	64	48	----	----	2	2	16	5	----	25	2	1	----	35	204
West Nanticoke Coal Co.,	Luzerne,	1	2	----	51	53	----	----	----	----	17	4	----	11	----	----	----	----	139
Acher and Jermyn,	Luzerne,	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Totals,		18	58	56	2,185	916	----	----	107	107	329	108	90	140	72	29	143	772	5,130

TABLE 3.—PART 1—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	2	4	14	98	62	9	16	63	11	15	305	600	3,135
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	-------	3	6	18	78	3	3	68	4	10	279	467	1,926
Lehigh Valley Coal Co.,	Luzerne,	-------	2	5	14	36	2	2	7	10	4	92	174	808
Pittston Coal Mining Co.,	Luzerne,	1	1	1	4	12	2	2	1	10	1	40	75	234
George F. Lee Coal Co.,	Luzerne,	-------	1	2	10	2	1	-------	6	-------	1	28	51	255
West Nanticoke Coal Co.,	Luzerne,	1	1	2	4	11	3	2	8	4	2	25	63	202
Acher and Jermyn,	Luzerne,	-------	-------	-------	1	1	-------	1	-------	-------	-------	6	10	10
Totals,		6	12	30	144	202	20	26	153	39	23	775	1,440	6,570

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	24	16	15	21	22	22	24	24	24	26	22	24	264
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	26	18	13	23	24	24	24	25	21	25	22	24	269
Lehigh Valley Coal Co.,	Luzerne,	25	19	14	20	20	22	22	22	17	24	21	23	249
Pittston Coal Mining Co.,	Luzerne,	26	12	15	22	24	24	26	25	23	26	22	24	269
George F. Lee Coal Co.,	Luzerne,	26	17	18	23	24	23	25	24	23	25	22	24	274
West Nanticoke Coal Co.,	Luzerne,	20	16	17	17	17	19	19	19	19	19	16	17	215

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 11	Carl Segar,	German,	Miner,	57	M.	1		Maxwell No. 20.		Fall of roof at face of chamber.
23	Joseph Wesnewsky,	Polish,	Miner,	44	M.	1	7	Sugar Notch No. 9.		Fall of coal from rib at face of gangway.
30	Frank Kanowski,	American,	Brakeman,	19	S.			Loomis,		Fall of roof on gangway.
June 5	George Wazeka,	American,	Driver,	18	S.			Buttonwood No. 22.		Kicked by mule on gangway.
7	George Goulstone,	English,	Miner,	28	M.	1	3			
	Wadick Razesko,	Polish,	Miner's laborer,	28	M.	1		Avondale,		Fall of coal at face of chamber.
11	Peter Olsiewski,	Polish,	Miner,	44	M.	1	4	Loomis,		Cars on gangway.
12	Michael Puska,	Polish,	Miner,	41	M.	1	1	Truesdale,		Explosion of gas at face of chute.
July 14	Thomas School,	American,	Motorman,	24	S.			Loomis,		Runaway trip of cars on gangway.
15	Edward Hanlon,	American,	Laborer,	37	S.			Franklin,		Runaway trip of cars on gangway.
18	Jacob Rosbadoski,	Russian,	Miner,	37	M.	1	2	Truesdale,		Premature blast at face of chamber.
23	George Phillips,	Welsh,	Laborer,	36	S.			Truesdale,		Falling down air shaft.
Aug. 1	Leslie Reese,	American,	Bratticeman,	27	M.	1		Loomis,		Cars on gangway.
5	Thomas Fitzpatrick,	American,	Engineer,	30	M.	1	2	Maxwell No. 20.		Squeezed between motor and cars on gangway.
20	William Bugnis,	Lithuanian,	Miner,	35	S.			Avondale,		Premature blast at face of chamber.
30	Henry Davenport,	American,	Driver,	19	S.			West Nanticoke.	Luzerne	Falling from mule while riding to barn. Outside.
Sept. 6	Sam. Phillips,	Russian,	Miner,	31	S.			Truesdale,		Premature blast at face of chamber.
Oct. 3	Carl Orsini,	Italian,	Miner,	28	M.	1	2	Franklin,		Fall of roof at face of tunnel.
4	Joseph Yankawit,	Lithuanian,	Miner,	52	M.	1	3	Maxwell No. 20.		Delayed blast at face of chamber.
9	William J. Jones,	Welsh,	Mason,	50	M.	1		Maxwell No. 20.		Runaway car at foot of plane.
16	Thomas Driscoll,	American,	Engineer,	25	M.	1		Truesdale,		Electric shock while using telephone in engine house during electric storm.
28	Edward Bellas,	American,	Runner,	27	M.	1	2	Loomis,		Cars on gangway.
Nov. 12	Mike Jula,	Russian,	Trackman,	57	M.	1		Buttonwood No. 22.		Cars on gangway.
Dec. 4	Joseph Belanchek,	Slavonian,	Miner,	40	M.	1	6	Franklin,		Runaway cars on slope.
	Fritz Armstrong,	Polish,	Miner's laborer,	24	S.					
	John Phillapek,	Polish,	Miner,	44	M.	1	4			
16	Joseph August,	Polish,	Miner,	34	S.			Warrior Run,		Fall of roof at face of gangway.
20	David M. Evans,	American,	Foreman,	41	M.	1		Truesdale,		Fall of roof at face of slope.
22	Roman Resmisewicz,	Polish,	Miner,	34	M.	1	4	Hadleigh,		Fall of roof at face of gangway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cau e of accident
Jan. 15	Martin Vishmpski,	Polish,	Patcher,	16	S.	Maxwell No. 20,		Falling under cars on gangway.
28	John Bresaney,	American,	Runner,	18	S.	Warrior Run,		Cars on gangway.
29	Frank Krobolski,	Russian,	Coupler,	20	S.	Loomis,		Squeezed between cars—coupling. Outside.
30	Edward Supchak,	American,	Motorman,	20	S.	Loomis,		Fall of rock on gangway.
Feb. 3	Frank Zegar,	Austrian,	Laborer,	53	M.	Truesdale,		Struck by falling rail.
6	Walter Wanzyinski,	Polish,	Miner,	38	M.	Loomis,		Fall of rock in tunnel.
7	John Dugan,	American,	Doorboy,	17	S.	Franklin,		Cars on gangway.
8	Charles Patenish,	Lithuanian,	Miner,	44	M.	Truesdale,		Blast at face of chamber.
	John Rakshys,	Lithuanian,	Miner,	33	M.			
19	Walter Beek,	American,	Carpenter,	32	M.	Avondale,		Falling from breaker. Outside.
Mar. 8	James Casey,	American,	Carpenter,	53	M.	Avondale,	Luzerne,	Struck by falling timber. Outside.
29	Peter Nedgoski,	Polish,	Miner,	34	M.	Loomis,		Cars in chamber.
April 2	Andrew U. Kunrado,	Slavonian,	Miner's laborer,	26	S.	Truesdale,		Falling down chamber.
9	Lawrence Brandi h,	Slavonian,	Miner,	28	M.	Truesdale,		Struck by rolling rock in chamber.
16	Simon Yurgiletus,	Lithuanian,	Miner,	49	S.	Maxwell No. 20,		Falling while trying to get out of way of car.
22	Thomas Mooney,	American,	Assi tant mine foreman	26	M.	Truesdale,		Cars at foot of slope.
May 17	Clifford Roberts,	Welsh,	Chute-tender,	16	S.	Sugar Notch No. 9,		Falling from rope on which he was sliding in breaker. Outside.
26	Frank Krynetski,	Russian,	Miner's laborer,	48	M.	Buttonwood No. 22,		Fall of rock in chamber.
28	Peter Koraski,	Polish,	Miner,	42	M.	Avondale,		Blast at face of chamber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)—Continued.

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
June 5	John Bath,	American,	Slatepicker,	14	S.	Truesdale,		Machinery in breaker. Outside.
10	Harry Havrishko,	Polish,	Miner's laborer,	42	M.	Truesdale,		Burned by gas in chamber.
11	Anthony Kelinski,	Polish,	Miner,	34	S.	Maxwell No. 20,		Premature blast in chamber
13	John Rapaduski,	Slavonian,	Electrician,	25	S.	Truesdale,		Burned at switch by a short circuit. Outside.
20	William Seletski,	Polish,	Miner's laborer,	33	M.	Buttonwood No. 22,		Fall of rock at face of chamber.
July 24	Walter Andrack,	American,	Patcher,	17	S.	Buttonwood No. 22,		Fall of coal at face of chamber.
Aug. 3	Patrick Moran,	American,	Laborer,	40	S.	Truesdale,		Slipping on rail and falling going down slope.
14	Lewis J. Davis,	American,	Fire boss,	44	M.	Buttonwood No. 22,		Fall of rock in chamber making examination.
19	Sidney Wolf,	American,	Carpenter,	65	M.	Chauncey,		Struck by a rope. Outside.
23	John Gils,	American,	Driver,	17	S.	Franklin,		Cars on gangway.
29	Simon Bushinski,	Polish,	Miner,	25	S.	Truesdale,	Luzerne,	Caught by piece of coal struck by motor
Sept. 9	Patrick Sweeney,	American,	Driver,	23	M.	Maxwell No. 20,		Caught between door and car on gangway.
	Steve Prebish,	American,	Brakeman,	27	S.	Truesdale,		Cars on gangway.
16	Steve Coma,	Polish,	Laborer,	39	S.	Buttonwood No. 22,		Kicked by mule. Outside.
Oct. 3	Joseph Stantewicz,	Lithuanian,	Miner,	34	M.	Sugar Notch No. 9,		Cars in chamber.
8	Jacob Makofski,	Polish,	Miner,	50	M.	Maxwell No. 20,		Car in chamber.
10	Steve Karpinski,	Polish,	Miner,	47	M.	Chauncey,		Car in chamber.
22	William Davis,	American,	Timberman,	39	W.	Loomis,		Cars on plane.
24	Benny Soviski,	Polish,	Miner's laborer,	48	M.	Truesdale,		Fall of roof in chamber.
27	James Boyle,	Irish,	Assistant mine foreman	47	M.	Warrior Run,		Fall of rock on gangway.
Nov. 10	Alex Yegefski,	Polish,	Miner's laborer,	49	S.	West Nanticoke,		Fall of coal at face of chamber.
14	John Orlouski,	Polish,	Watchman,	55	M.	West Nanticoke,		Falling through hole in breaker. Outside.
18	Simon Groblouski,	Lithuanian,	Miner,	45	M.	Maxwell No. 20,		Struck by coal rolling down chamber—loading car.
Dec. 4	Joseph Wyda,	Polish,	Miner's laborer,	29	M.	Franklin,		Runaway car on slope.
30	Isidore Sebastinille,	Italian,	Miner's laborer,	24	S.	Hadleigh,		Roof at face of chamber.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in the Lehigh Valley Coal Company's Office Building, Wilkes-Barre, May 6 and 7. The Board of Examiners was composed of Frank Kettle, Mine Inspector, Nanticoke; John H. Haertter, Superintendent, Wilkes-Barre; George Raub, Miner, Plymouth; Patrick McGrane, Miner, Sugar Notch.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Edward Evans, Benjamin Humphrey, William Roachford, Arthur E. Stevens, Edward Collett, Eugene Gordon Lawson, Wilkes-Barre; Lewis J. Davis, Walter Symons, Plymouth; John Cauley, Forty-Fort; Michael A. Lavin, Kingston; George Phillips, Nanticoke; John O. Williams, Ashley; Isaac Gallagher, Sugar Notch.

ASSISTANT MINE FOREMEN

Joseph Chopko, Meredith Evans, John Gola, John Lavish, Joseph Miaka, Wilkes-Barre; Charles F. Cain, David Griffith, Harry Richards, Nanticoke; Hugh Owens, John Benjamin, Davis, Harry Williams, Ashley; Martin C. Burns, Walter Rzemien, Warrior Run; Joseph Pawlikowski, Peely; Anthony F. Kane, Sugar Notch; Henry R. Jenkins, Plymouth.

1919

FOURTEENTH DISTRICT.

Luzerne County.

Joseph J. Walsh, Inspector, Nanticoke

SUMMARY OF STATISTICS

Collieries in operation, (breakers)	9
Washeries in operation,	3
Mines in district,	39
Gaseous mines in operation,	28
Non-gaseous mines in operation,	11
Tons of coal shipped to market,	3,617,627
Tons used at mines for steam and heat,	358,020
Tons sold to local trade and used by employes,	58,107
Tons produced (gross),	4,033,754
Persons employed inside,	5,321
Persons employed outside,	2,142
Persons employed inside between 16 and 21 years,	399
Persons employed outside between 14 and 21 years,	445
Fatal accidents inside,	24
Fatal accidents outside,	1
Serious non-fatal accidents inside,	27
Serious non-fatal accidents outside,	5
Tons produced per fatal accident inside,	168,073
Tons produced per fatal accident inside and outside,	161,350
Persons employed per fatal accident inside,	222
Persons employed per fatal accident outside,	2142
Persons employed per fatal accident inside and outside,	299
Persons employed per non-fatal accident inside,	197
Persons employed per non-fatal accident ouside,	428
Persons employed per non-fatal accident inside and outside,	233
Wives made widows,	18
Children made orphans,	63
Steam locomotives outside,	18
Compressed air locomotives inside,	10
Electric motors inside,	93
Electric motors outside,	2
Gasoline locomotives inside,	1
Tubular boilers,	75
Steam engines of all classes,	130
Electric dynamos,	23

Pumps of all classes,	79
Pumps delivering water to surface,	29
Air compressors,	34
Fans in use,	46

TABLE A

Production of Coal.

Operators	Gross tons
Susquehanna Collieries Company,	1,519,031
Delaware, Lackawanna and Western Railroad Company,	808,557
Lehigh and Wilkes-Barre Coal Company,	737,310
West End Coal Company,	493,663
Alden Coal Company,	379,009
E. S. Stackhouse Coal Company,	64,741
East Alden Mining Company,	31,440
Total,	4,033,754

Production by Counties.

Luzerne,	4,033,754

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Susquehanna Collieries Co.,	6	------	6	18	2	20	253,005	84,391	2,262	1,078	3,340	377	----------	126	539
Delaware, Lackawanna and Western Railroad Co.,	9	------	9	3	1	4	89,840	269 519	1,052	193	1,245	117	----------	351	193
Lehigh and Wilkes-Barre Coal Co.,	1	------	1	3	------	3	737,310	245,770	667	308	975	667	----------	223	----------
West End Coal Co.,	2	------	2	1	2	3	246,833	493,666	614	281	895	307	----------	614	141
Alden Coal Co.,	4	------	4	2	------	2	94,752	189,505	540	217	757	136	----------	273	----------
E. S. Stackhouse Coal Co.,	1	1	2	------	------	------	64,741	----------	130	47	177	130	47	----------	----------
East Alden Mining Co.,	1	------	1	------	------	------	31,440	----------	56	18	74	56	----------	----------	----------
Totals and averages,	24	1	25	27	5	32	168,073	149,398	5,321	2,142	7,463	222	2,142	197	428

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Susquehanna Collieries Co. Number 5, Number 6, Number 7, Nanticoke Washery,	Luzerne,	Robert A. Quin,	Wilkes-Barre,	F. H. Kohlbraker,	Nanticoke,	Pennsylvania,
Delaware, Lackawanna and Western Railroad Co. Bliss, Auchincloss,	Luzerne,	S. D. Dimmick,	Scranton,	Wayne Caruthers, David Lloyd,	Nanticoke, Wilkes-Barre, R. D.	D. L. & W.,
Lehigh and Wilkes-Barre Coal Co. Wanamie No. 18, Wanamie Washery,	Luzerne,	C. F. Huber, President,	Wilkes-Barre,	Douglas Bunting,	Wilkes-Barre,	C. R. R. of N. J.,
West End Coal Co. West End,	Luzerne,	Floyd G. Wilcox,	Scranton,	J. M. Jones,	Mocanaqua,	Penna.; C. R. R. of N. J.,
Alden Coal Co. Alden, Alden Washery,	Luzerne,	K. M. Smith,	Alden Station,	K. M. Smith,	Alden Station,	C. R. R. of N. J.,
E. S. Stackhouse Coal Co. Salem,	Luzerne,	E. S. Stackhouse,	Bloomsburg,	W. S. Ritter,	Shickshinny,	D. L. & W.,
East Alden Mining Co. East Alden,	Luzerne,	W. A. McGinley,	Nanticoke,	M. J. McDonald,	Nanticoke,	Lehigh Valley,

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Susquehanna Collieries Co.												
Number 5,	Luzerne,	422,721	8,066	13,929	444,716	275	1,239	3	11	226,225	22,288	46,500
Number 6,	Luzerne,	441,009	49,043	5,754	495,866	278	960	1	5	134,550	159,026	750
Number 7,	Luzerne,	353,216	21,875	9,564	384,655	277	1,036	2	4	200,275	26,282	83,153
		1,216,946	78,984	29,247	1,325,177		3,235	6	20	561,050	207,596	130,403
Nanticoke Washery,	Luzerne,	68,939	124,915		193,854	276	105					
Totals,		1,285,885	203,899	29,247	1,519,031		3,340	6	20	561,050	207,596	130,403
Delaware, Lackawanna and Western Railroad Co.												
Bliss,	Luzerne,	508,097	44,461	4,817	557,375	281	895	3	4	159,350	43,374	183,550
Auchincloss*,	Luzerne,	237,133	14,049		251,182	276*	350	6				128,330
Totals,		745,230	58,510	4,817	808,557		1,245	9	4	159,350	43,374	311,880
Lehigh and Wilkes-Barre Coal Co.												
Wanamie No. 18,	Luzerne,	523,849	45,628	4,524	574,001	275	903	1	3	81,150	37,807	166,999
Wanamie Washery,	Luzerne,	163,248		61	163,309	262	72					
Totals,		687,097	45,628	4,585	737,510		975	1	3	81,150	37,807	166,999
West End Coal Co.												
West End,	Luzerne,	476,318	10,120	7,228	493,666	250	895	2	3	5,700	32,150	149,700
Alden Coal Co.												
Alden,	Luzerne,	247,983	23,992	9,806	281,781	240	717	4	2	131,625	25	60,517
Alden Washery,	Luzerne,	82,228	15,000		97,228	240	40					
Totals,		330,211	38,992	9,806	379,009		757	4	2	131,625	25	60,517
E. S. Stackhouse Coal Co.												
Salem,	Luzerne,	61,686	631	2,424	64,741	234	177	2		8,315	15,000	
East Alden Mining Co.												
East Alden,	Luzerne,	31,200	240		31,440	300	74	1		2,900	2,400	25,700
Grand Totals,		3,617,627	358,020	58,107	4,033,754		7,463	25	32	950,090	338,352	845,199

*Coal prepared at Loomis breaker, 13th District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps					Haulage				Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Susquehanna Collieries Co.,	Luzerne,	----	--------	41	9,664	61	9,200	----	--------	16	2,970	28	12,400	6	6,200	180	----	----	10	33	15	14,300
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	----	--------	7	3,500	14	5,082	----	--------	4	1,300	6	4,400	3	1,400	53	----	2	----	25	3	3,800
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	----	--------	12	2,266	36	4,292	----	--------	2	400	9	6,314	3	2,065	81	----	4	----	8	2	2,000
West End Coal Co.,	Luzerne,	----	--------	2	1,000	10	1,100	----	--------	----	--------	25	5,385	13	4,330	20	----	9	----	22	10	1,330
Alden Coal Co.,	Luzerne,	----	--------	11	2,262	9	1,375	----	--------	----	--------	6	2,000	2	1,000	68	1	3	----	2	4	4,189
E. S. Stackhouse Coal Co.,	Luzerne,	----	--------	1	150	----	--------	----	--------	1	225	2	400	1	110	2	----	----	----	5	----	--------
East Alden Mining Co.,	Luzerne,	----	--------	1	80	----	--------	----	--------	----	--------	3	150	1	60	----	----	----	----	----	----	--------
Totals,	----------	----	--------	75	18,922	130	21,049	----	--------	23	4,895	79	31,049	29	15,165	404	1	18	10	95	34	25,619

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Pratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Susquehanna Collieries Co.,	Luzerne,	6	17	42	831	533	------	------	42	52	142	60	28	197	20	1	46	245	2,262
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	3	6	20	406	230	------	------	25	25	54	25	18	48	10	10	14	158	1,052
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	2	------	14	326	111	------	------	10	10	36	10	9	------	5	1	18	115	667
West End Coal Co.,	Luzerne,	5	9	3	217	150	------	------	21	32	11	24	3	47	11	20	3	48	614
Alden Coal Co.,	Luzerne,	1	2	5	190	84	3	3	3	3	132	7	10	6	6	1	18	66	540
E. S. Stackhouse Coal Co.,	Luzerne,	1	------	------	54	56	------	------	10	3	------	------	------	------	------	2	------	4	130
East Alden Mining Co.,	Luzerne,	1	1	1	19	23	------	------	------	------	------	------	9	2	2	------	------	5	56
Totals,		19	35	85	2,043	1,197	3	3	111	125	375	126	79	300	54	35	99	641	5,321

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Susquehanna Collieries Co.,	Luzerne,	2	5	24	89	154	48	18	86	9	35	608	1,078	3,340
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	2	2	4	22	52	3	3	23	8	6	88	103	1,245
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	.....	2	3	8	29	2	3	40	3	6	212	308	975
West End Coal Co.,	Luzerne,	1	2	10	23	3	18	8	23	4	8	181	281	895
Alden Coal Co.,	Luzerne,	1	1	3	12	40	4	.....	53	30	8	85	217	757
E. S. Stackhouse Coal Co.,	Luzerne,	1	1	3	2	.....	.....	2	6	3	2	27	47	177
East Alden Mining Co.,	Luzerne,	1	1	1	1	3	.....	.....	.....	3	1	7	18	74
Totals,		8	14	48	157	261	75	34	211	60	66	1,208	2,142	7,463

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Susquehanna Collieries Co.,	Luzerne,	25	16	21	24	24	24	25	24	23	24	22	24	276
Delaware, Lackawanna and Western Railroad Co.	Luzerne,	26	17	16	24	24	25	26	24	24	26	22	25	279
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	26	18	14	23	24	24	25	24	24	26	23	24	275
West End Coal Co.,	Luzerne,	25	24	14	23	18	--------	25	25	23	26	23	24	250
Alden Coal Co.,	Luzerne,	21	13	18	20	20	19	23	21	21	21	20	23	240
E. S. Stackhouse Coal Co.,	Luzerne,	26	10	13	--------	15	25	24	24	24	26	22	25	234
East Alden Mining Co.,	Luzerne,	25	24	26	25	26	25	24	26	25	26	24	24	300

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 14	James Brown,	American,	Pump runner,	47	M.	1	5	East Alden,	Luzerne,	Falling into slope.
18	Thomas Cooper,	English,	Mason,	66	M.	1	------	Alden,		Explosion of gas at face of chamber—ignited when glass in safety lamp was broken.
	Morgan Thomas,	American,	Bratticeman,	26	M.	1	1	Alden,		
22	Anthony Sasimoviez,	Polish,	Miner,	52	M.	1	1	Number 6,		Fall of roof at the face of chamber—preparing to stand prop.
Mar. 17	Herman Howard,	American,	Miner,	47	M.	1	4	Bliss,		Fall of coal while removing pillars.
21	Benjamin Benneski,	Polish,	Miner,	41	M.	1	7	Auchincloss,		Suffocated by gas in chute—driving chute.
	John Hastrzewski,	Polish,	Miner,	42	M.	1	3	Auchincloss,		
22	Leo Kulis,	American,	Runner,	20	S.	------	------	Number 5,		Struck on head by derailed car on gangway.
	James Riley,	Irish,	Miner's laborer,	61	M.	1	1	Number 5,		Fall of coal from rib in chamber—preparing to stand timber.
May 5	Stanley Granvitskl,	Polish,	Miner,	52	M.	1	6	Bliss,		Premature blast in chamber.
June 23	John Knoric,	Polish,	Miner,	46	M.	1	7	Number 5,		Fall of roof at face of chamber.
24	George E. Hartman,	American,	Laborer,	46	M.	1	7	Salem,		Fall of roof at face of pillar.
July 2	Joseph Tomascovage,	American.	Brakeman,	23	S.	------	------	West End,		Head struck roof while riding on motor on gangway
18	Thomas Hogg,	English,	Miner,	57	M.	1	------	Alden,		Fall of roof at face of chamber.
Aug. 1	George Foust,	American,	Machinist,	39	M.	1	1	Alden,		Electricity. Came into contact with steel roof support on which a charged wire rested, on gangway.
4	Frank Rushcofskl,	Polish,	Miner,	57	M.	1	6	Number 7,		Fall of roof at face of working place.
Sept. 21	Charles Kashatas,	Lithuanian,	Slope attendant,	20	S.	------	------	West End,		Electricity. Came into contact with trolley wire on slope.
Oct. 9	Thomas Wida,	American,	Brakeman,	19	S.	------	------	Number 7,		Falling under moving trip of cars on gangway.
17	Russel Caley,	American,	Driver,	19	S.	------	------	Wanamie No. 18.		Squeezed between car and rib on gangway.
Nov. 7	Charles Teck,	Polish,	Miner,	27	M.	1	2	Auchincloss,		Burned by explosion of gas ignited by blast.
	Frank Kasmerchieze,	Polish,	Miner's laborer.	53	M.	1	4			
	Peter Kasermiaze,	Polish,	Miner,	48	M.	1	3			
Dec. 12	Joseph Daminski,	Polish,	Miner's laborer,	39	M.	1	5	Auchincloss,		Fall of roof at face of chamber.
17	Peter Kozloski,	Lithuanian,	Miner,	27	S.	------	------	Bliss,		Fall of roof at face of chamber.
22	Frank Magrovich,	Polish,	Chutetender,	18	S.	------	------	Salem,		Machinery in breaker. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	age	Married or single	Colliery	County	Cause of accident
Jan. 9	Clem Benkoski,	Polish,	Miner,	23	S.	Number 6,	Luzerne,	Fall of coal at face of chamber.
24	Fred Kavlick,	Polish,	Miner's laborer,	36	M.	Number 5,		Fall of coal at face of chamber.
28	Frank Brush,	American,	Runner,	34	S.	Number 5,		Run over by car.
Feb. 17	John Beroski,	Slavonian,	Miner,	25	M.	Number 5,		Fall of roof at face of chamber.
19	Stanley Struzinski,	Polish,	Pumpman,	19	S.	Number 7,		Caught by sprocket wheel in chain hoist Outside.
March 8	Felix Obeginski,	Polish,	Miner,	27	S.	Number 6,		Sliding rock on pitch.
31	John Hudock,	Russian,	Miner,	25	M.	Number 6,		Flying coal from delayed blast
April 11	Frank Goinuski,	American,	Miner,	34	M.	Number 7,		Flying coal from blast.
22	Steve Kobosko,	American,	Footman,	19	S.	Number 5,		Run over by car.
May 2	Harry Holloway,	American,	Car coupler,	17	S.	West End,		Squeezed between cars. Outside.
24	Andrew Bannock,	Polish,	Miner's laborer,	47	M.	Alden,		Fall of coal at face of chamber.
26	Stanley Lukasawiez,	Polish,	Miner's laborer,	30	M.	Bliss,		Fall of coal at face of chamber.
June 20	John Yanoski,	American,	Driver,	17	S.	Number 6,		Caught in gearing of electric pump.
	John Gething,	English,	Miner,	43	S.	Number 7,		Runaway car on slope.
26	Chester Rhinehammer,	American,	Miner,	33	M.	Wanamie,		Fall of coal from rib at face of chamber.
July 1	Joseph Leonard,	Lithuanian,	Timberman,	58	M.	Number 5,		Fall of rock while replacing lagging.
3	Jos Valchik,	Polish,	Miner,	37	M.	Alden,		Fall of rock at face of chamber preparing to stand timber.
9	Matt Rocciopa,	Italian,	Trackman,	52	M.	West End,		Falling under moving trip of cars. Outside.
31	Enoch Dykins	English,	Fire boss,	40	M.	Number 5,		Derailed car.
Aug. 9	Frank Mayefski,	American,	Brakemen,	18	S.	Number 5,		Thrown under locomotive in tunnel when it struck broken collar on track—riding.
12	Joseph Harkall,	American,	Brakemen,	17	S.	Number 6,		Squeezed between derailed cars. Outside
26	Charles Shershem,	Polish,	Miner,	56	M.	Wanamie,		Fall of roof at face of chamber.
30	Anthony Yamalkoski,	Polish,	Miner,	28	M.	West End,		Squeezed between cars.
Sept. 24	Anthony Dombroski,	Polish,	Laborer,	36	S.	Bliss,		Falling off railroad car. Outside.
29	Leo Voshefski,	American,	Footman,	20	S.	Number 5,		Crushed by cars.
Oct. 18	Anthony Rodnik,	Polish,	Miner,	28	M.	Wanamie,		Burned by gas at face of chamber.
28	Harry Castermoor,	American,	Rockman,	44	M.	Bliss,		Squeezed between car and drilling machine.
Nov. 13	Joseph Levandoski,	Polish,	Miner,	48	M.	Number 5,		Fall of rock at face of chamber.
25	Frank Macolski,	Polish,	Miner's laborer,	45	M.	Number 5,		Piece of coal bursting from pillar.
Dec. 6	George Knedtz,	Austrian,	Miner,	35	W.	Number 5,		Squeezed between cars.
8	Johnathan Houch,	American,	Rockman,	60	M.	Bliss,		Struck by drill that caught against roof—riding up slope.
10	Michael Gritzka,	Polish,	Miner,	46	M.	Number 7,		Fall of coal at the face of chamber.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Nanticoke, May 6 and 7. The Board of Examiners was composed of Joseph J. Walsh, Mine Inspector; F. H. Kohlbraker, Superintendent; John H. Keating and Andrew P. Seletski, Miners.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Edward Minett, David H. Samuel, David Miles Thomas, Anthony Lawrence Williams, Nanticoke.

ASSISTANT MINE FOREMEN

Marvin J. Bridle, Pond Hill; John J. Bryan, Rhone; Moses Griffith, Bertnard Jones, Joseph Kaminski, Bolish Kochin, Nanticoke; Kenneth Myers, Ernest A. Ogin, Arthur Wright, Alden; Joseph A. Shershen, Frank M. Shiffka, Even R. Thomas, Glen Lyon; Willard Thompson, Shickshinny.

1919

FIFTEENTH DISTRICT.

Luzerne County.

David J. Roderick, Inspector, Hazleton.

SUMMARY OF STATISTICS

Collieries in operation (breakers),	16
Washeries in operation,	
Mines in district,	63
Gaseous mines in operation,	20
Non-gaseous mines in operation,	43
Tons of coal shipped to market,	3,862,250
Tons used at mines for steam and heat,	469,815
Tons sold to local trade and used by employes,	141,395
Tons produced (gross),	4,473,163
Persons employed inside,	4,287
Persons employed outside,	2,545
Persons employed inside between 16 and 21 years,	317
Persons employed outside between 14 and 21 years,	630
Fatal accidents inside,	14
Fatal accidents outside,	4
Serious non-fatal accidents inside,	27
Serious non-fatal accidents outside,	13
Tons produced per fatal accident inside,	319,512
Tons produced per fatal accident inside and outside,	248,509
Persons employed per fatal accident inside,	306
Persons employed per fatal accident outside,	636
Persons employed per fatal accident inside and outside,	380
Persons employed per non-fatal accident inside,	159
Persons employed per non-fatal accident outside,	196
Persons employed per non-fatal accident inside and outside,	171
Wives made widows,	11
Children made orphans,	27
Steam locomotives inside,	3
Steam locomotives outside,	75

Compressed air locomotives inside,	9
Electric motors inside,	29
Gasoline locomotives inside,	1
Tubular boilers,	151
Steam engines of all classes,	220
Electric dynamos,	32
Pumps of all classes,	106
Pumps delivering water to surface,	55
Air compressors,	23
Fans in use,	38

TABLE A

Production of Coal

Operators	Gross Tons
G. B. Markle Company,	1,786,192
Coxe Brothers and Company, Incorporated,	1,124,653
Pardee Brothers and Company, Incorporated,	589,063
Lehigh Valley Coal Company,	574,886
Upper Lehigh Coal Company,	166,217
J. S. Wentz Company,	85,246
Wolf Collieries Company, Incorporated,	53,251
Harleigh-Brookwood Coal Company,	50,016
East Point Coal Company,	33,281
M. S. Kemmerer and Company,	10,358
Total,	4,473,163

Production by Counties.

Luzerne,	4,473,163

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
G. B. Markle Co.,	4	1	5	15	2	17	446,548	119,079	1,307	910	2,217	327	910	87	455
Coxe Brothers and Co., Inc.,	3	------	3	1	2	3	374,884	1,124,653	911	436	1,347	304	----------	911	218
Pardee Brothers and Co. Inc.,	4	------	4	1	2	3	147,266	589,063	744	280	1,024	186	----------	744	140
Lehigh Valley Coal Co.,	3	3	6	7	2	9	191,629	82,127	761	497	1,258	254	166	109	249
Upper Lehigh Coal Co.,	------	------	------	------	5	5	----------	----------	151	175	326	----------	----------	----------	35
East Point Coal Co.,	------	------	------	2	------	2	----------	16,641	85	46	131	----------	----------	43	----------
M. S. Kremmerer and Co.,	------	------	------	1	------	1	----------	10,358	58	49	107	----------	----------	58	----------
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	270	152	422	----------	----------	----------	----------
Totals and averages,	14	4	18	27	13	40	319,512	165,673	4,287	2,545	6,832	306	636	159	196

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General Superintendent	Post office	Superintendent	Post office	Railroad to mine
G. B. Markle Co. Highland No. 2, Highland No. 5, Jeddo No. 4, Jeddo No. 7,	Luzerne,	A. B. Jessup, General Manager,	Jeddo,	G. P. Troutman, Assistant General Manager,	Jeddo,	Lehigh Valley,
Coxe Brothers and Co., Inc. Drifton, Eckley, Deringer,	Luzerne,	Thomas P. Thomas,	Wilkes-Barre,	H. W. Montz, H. W. Montz, D. S. Wolfe,	Hazleton, Hazleton, Hazleton,	Lehigh Valley,
Pardee Brothers and Co., Inc. Lattimer,	Luzerne,	John W. Crooks, General Manager,	Lattimer Mines,			Lehigh Valley,
Lehigh Valley Coal Co. Hazleton No. 1, Hazleton Shaft,	Luzerne,	Thomas P. Thomas,	Wilkes-Barre,	H. W. Montz,	Hazleton,	Lehigh Valley,
Upper Lehigh Coal Co. Upper Lehigh,	Luzerne,	T. E. Snyder,	Hazleton,	D. W. Muir,	Upper Lehigh,	C. R. R. of N. J.
J. S. Wentz Co. Hazle Brook,	Luzerne,	T. E. Snyder, General Manager,	Hazleton,	E. P. Humphrey,	Hazle Brook,	Lehigh Valley,
Wolf Collieries Co., Inc. Wolf,	Luzerne,	Joseph G. Sarieks,	Freeland,	Joseph G. Sarieks,	Freeland,	Lehigh Valley,
Harleigh—Brookwood Coal Co. Harleigh,	Luzerne,	Thomas R. Jones,	Frackville,			Lehigh Valley,
East Point Coal Co. Pond Creek,	Luzerne,			John Evans,	Freeland,	C. R. R. of N. J.
M. S. Kemmerer and Co. Sandy Run,	Luzerne,	M. S. Kemmerer,	Mauch Chunk,	William H. Grady, Agent,	Minersville,	C. R. R. of N. J.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (Gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
G. B. Markle Co.,												
Highland No. 2,	Luzerne,	227,281	40,695	10,964	278,940	301	419		4		77,038	
Highland No. 5,	Luzerne,	388,396	28,977		417,373	299	462	3	5		142,235	
Jeddo No. 4,	Luzerne,	682,837	57,538	2,019	742,394	299	1,104	2	8		326,306	
Jeddo No. 7,	Luzerne,	308,161	18,872	20,452	347,485	295	232				29,275	
Totals,		1,606,675	146,082	33,435	1,786,192		2,217	5	17		574,854	
Coxe Brothers and Co., Inc.												
Drifton,	Luzerne,	288,861	65,867	11,785	366,513	282	520	1	2	5,325	126,307	
Eckley,	Luzerne,	345,339	34,790	15,977	396,106	288	271			575	60,994	
Deringer,	Luzerne,	525,693	33,070	3,271	362,034	265	556	2	1	325	168,733	
Totals,		959,893	133,727	31,033	1,124,653		1,347	3	3	6,225	356,034	
Pardee Brothers and Co., Inc.												
Lattimer,	Luzerne,	517,046	64,000	8,017	589,063	270	1,024	4	3		366,572	
Lehigh Valley Coal Co.												
Hazleton No. 1,	Luzerne,	187,017	21,569	56,377	264,963	251	452	5	3		143,977	
Hazleton Shaft,	Luzerne,	232,605	70,195	7,123	309,923	253	806	1	6		171,401	
Totals,		419,622	91,764	63,500	571,886		1,258	6	9		315,378	
Upper Lehigh Coal Co.												
Upper Lehigh,	Luzerne,	152,458	10,950	2,809	166,217	247	326		5		63,083	
J. S. Wentz Co.												
Hazle Brook,	Luzerne,	69,363	15,136	747	85,246	221	199				44,265	
Wolf Collieries Co., Inc.												
Wolf,	Luzerne,	49,440	3,811		53,251	282	94				30,375	

TABLE 2.—PART 1.—Continued.

Operators and collieries.	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Harleigh-Brookwood Coal Co. Harleigh,	Luzerne,	49,866	150	----------	50,016	275	129	--------	--------	----------	20,975	5,300
East Point Coal Co., Pond Creek,	Luzerne,	31,620	398	1,263	33,281	225	131	--------	2	----------	16,475	----------
M. S. Kemmerer and Co. Sandy Run,	Luzerne,	6,267	3,500	591	10,358	49	107	--------	1	----------	1,916	----------
Grand totals,		3,862,250	469,518	141,395	4,473,163	--------	6,832	18	40	6,225	1,789,927	5,300

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
G. B. Markle Co.,	Luzerne,	----	--------	29	9,900	59	8,622	----	--------	6	1,195	48	34,300	8	13,200	116	----	30	6	14	10	5,788
Coxe Brothers and Co., Inc.,		----	--------	41	13,475	51	4,830	----	--------	2	250	12	13,600	12	10,600	210	----	20	3	1	7	3,700
Pardee Brothers and Co., Inc.,		----	--------	12	4,000	26	3,300	----	--------	----	--------	1	2,000	1	2,000	85	----	10	----	3	2	2,150
Lehigh Valley Coal Co.,		----	--------	35	5,300	42	5,525	----	--------	2	300	9	8,500	9	4,300	63	----	6	----	10	----	--------
Upper Lehigh Coal Co.,		----	--------	11	2,480	19	2,181	----	--------	----	--------	9	6,500	9	6,500	22	1	7	----	1	2	1,2[illegible]0
J. S. Wentz Co.,		----	--------	11	1,500	16	750	----	--------	----	--------	14	6,350	5	2,000	18	----	3	----	----	1	900
Wolf Collieries Co., Inc.,		----	--------	3	425	4	†	----	--------	----	--------	4	2,000	3	1,200	9	----	----	----	----	----	--------
Harleigh-Brookwood Coal Co.,		----	--------	4	600	----	--------	----	--------	15	591	4	4,000	4	4,000	15	----	1	----	----	----	--------
East Point Coal Co.,		----	--------	1	100	1	80	----	--------	----	--------	2	1,250	1	750	12	----	----	----	----	1	300
M. S. Kemmerer and Co.,		----	--------	4	890	2	150	----	--------	7	290	3	1,500	3	1,500	20	----	1	----	----	----	--------
Totals,	----------	----	--------	151	38,670	220	25,448	----	--------	32	2,626	106	80,000	55	46,050	570	1	78	9	29	23	14,038

†Not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Tracknen	Brattiecmen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
G. B. Markle Co.,	Luzerne,	8	15	4	551	272	------	------	23	26	61	32	12	156	15	2	21	109	1,307
Coxe Brothers and Co., Inc.,	Luzerne,	7	18	------	481	44	------	------	5	5	96	20	17	51	11	4	7	145	911
Pardee Brothers and Co., Inc.,	Luzerne,	2	10	5	493	73	------	------	3	3	45	30	6	47	4	2	6	15	744
Lehigh Valley Coal Co.,	Luzerne,	7	20	------	378	63	------	------	12	12	11	17	16	79	11	7	8	120	761
Upper Lehigh Coal Co.,	Luzerne,	4	------	------	54	25	------	------	2	1	11	4	3	4	4	------	------	39	151
J. S. Wentz Co.,	Luzerne,	2	------	------	53	12	------	------	------	------	11	4	------	8	6	------	------	4	100
Wolf Collieries Co., Inc.,	Luzerne,	2	1	------	47	6	------	------	------	------	6	3	3	6	4	------	------	2	80
Harleigh-Brookwood Coal Co.,	Luzerne,	1	------	------	32	33	------	------	------	------	7	2	------	4	5	1	------	5	90
East Point Coal Co.,	Luzerne,	1	------	------	50	6	------	------	------	------	9	2	------	4	2	1	------	10	85
M. S. Kemmerer and Co.,	Luzerne,	1	1	------	22	5	------	------	------	------	6	2	------	12	4	1	------	4	58
Total,		35	65	9	2,161	539	------	------	45	47	263	116	57	371	66	18	42	453	4,287

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
G. B. Marvin Co.,	Luzerne,	1	6	11	29	88	--------	26	--------	71	14	664	910	2,217
Coxe Brothers and Co., Inc.,		--------	8	17	31	99	16	19	4	1	10	231	436	1,347
Pardee Brothers and Co., Inc.,		1	2	3	26	30	13	11	12	8	13	161	280	1,024
Lehigh Valley Coal Co.,		--------	3	12	32	54	9	4	42	17	8	316	497	1,258
Upper Lehigh Coal Co.,		1	3	4	7	21	14	10	12	--------	3	100	175	326
J. S. Wentz Co.,		1	1	1	4	16	1	2	12	2	3	56	99	199
Wolf Collieries Co., Inc.,		1	1	1	1	5	1	1	--------	--------	1	2	14	94
Harleigh-Brookwood Coal Co.,		--------	1	2	3	9	--------	1	--------	--------	2	21	39	129
East Point Coal Co.,		1	--------	1	2	3	1	--------	2	--------	1	35	46	131
M. S. Kemmerer and Co.,		1	1	1	2	6	1	1	7	4	2	23	49	107
Total,		7	26	53	137	331	56	75	91	103	57	1,609	2,545	6,832

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
G. B. Markle Co.,	Luzerne,	26	24	26	24	25	25	26	25	24	26	22	26	299
Coxe Brothers and Co., Inc.,		26	20	14	21	24	24	26	25	24	27	23	24	278
Pardee Brothers and Co., Inc.,		26	9	16	22	25	25	26	25	24	26	22	24	270
Lehigh Valley Coal Co.,		26	20	15	21	20	21	21	23	21	23	19	22	252
Upper Lehigh Coal Co.,		24	11	14	21	21	20	20	20	24	22	23	27	247
J. S. Wentz Co.,		22	11	13	21	21	19	17	19	19	22	18	19	221
Wolf Collieries Co., Inc.,		26	21	16	21	25	25	26	25	24	26	22	25	282
Harleigh-Brookwood Coal Co.,		26	12	19	24	24	24	25	23	25	25	23	25	275
East Point Coal Co.,		25	9	-------	-------	24	23	23	25	24	26	26	26	225
M. S. Kemmerer and Co.,		25	13	-------	-------	-------	-------	-------	-------	-------	-------	-------	11	49

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Feb. 7	Michael Sinko,	Russian,	Miner,	36	M.	1	1	Hazleton No. 1	Luzerne,	Fall of roof at pillar work.
10	Joseph Polesky,	Polish,	Miner,	37	M.	1		Highland No. 5		Fall of roof at pillar work.
March 5	Bernard Serra,	Italian,	Car runner,	25	S.			Jeddo No. 4,		Railroad cars. Outside.
17	Frank Ososky,	Polish,	Miner,	41	M.	1	7	Lattimer,		Fall of coal at pillar work.
28	Michael Yescavish,	American,	Doorboy	16	S.			Highland No. 5		Run over by cars on gangway.
April 5	Michael Stashefsai,	Hungarian,	Miner,	38	M.	1	3	Lattimer,		Fall of roof at face of breast.
June 9	John Chisnell,	American,	Mine foreman,	39	M.	1	3	Highland No. 5		Cars at foot of slope.
July 29	Tony Piro,	American,	Electrician,	32	M.	1	2	Hazleton No. 1		Electricity—falling off ladder onto high tension wires while placing screen in engine house. Outside.
31	Michael Gabriel,	Italian,	Miner,	38	M.	1	4	Hazleton No. 1		Fall of slate from roof at face of breast.
Aug. 1	Anthony Baldessari,	Tyrolean,	Miner,	42	M.	1	4	Lattimer,		Fall of coal from rib at face of gangway.
Sept. 15	Oliver Steiner,	American,	Driver,	33	S.			Deringer,		Fall of roof in pillar work.
19	Nicholas Cortese,	American,	Driver,	23	S.			Lattimer,		Cars on turnout on gangway.
Oct. 4	Patrick Parell,	American,	Laborer,	24	S.			Drifton,		Fall of slate from roof on gangway.
Nov. 8	John Rusnock,	Austrian,	Miner,	53	M.	1	1	Hazleton No. 1		Fall of slate from roof in pillar work.
18	James Watson,	American,	Miner's laborer,	21	M.	1	2	Jeddo No. 4,		Fall of roof at face of stripping.
Dec. 3	George Leshko, Jr.,	American,	Loader,	19	S.			Hazleton No. 1		Run over by railroad car—fell off car. Outside.
27	Forella Alaprandini,	American,	Driver,	20	S.			Deringer,		Falling under cars on gangway.
29	Robert Steidle,	American,	Foreman,	23	M.	1		Hazleton Shaft		Machinery. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Name of colliery	County	Cause of accident
Jan. 4	Peter Ledi,	Slavonian,	Miner,	33	M.	Upper Lehigh,		Bumped by mine locomotive. Outside.
13	John Petruski,	Hungarian,	Carpenter,	50	M.	Pond Creek,		Fall of coal from side of gangway.
15	Lewis Griesing,	American,	Laborer,	42	S.	Hazleton Shaft,		Gunboat on breaker plane. Outside.
23	John Kolick,	Polish,	Driver,	22	S.	Highland No. 5,		Falling when plank broke.
Feb. 1	Leonard Ward,	American,	Driver,	18	S.	Highland No. 2,		Car on gangway—unhitching.
3	Stanley E. Zick,	Slavonian,	Laborer,	48	M.	Jeddo No. 4,		Caught between door and car on gangway.
12	Peter Cerenshock,	Slavonian,	Laborer,	49	M.	Sandy Run,		Struck by timber falling from truck on gangway.
19	James Farello,	Italian,	Laborer,	34	M.	Jeddo No. 4,		Caught under derailed car on gangway.
20	Michael Kistuiance,	Slavonian,	Miner,	40	M.	Jeddo No. 4,		Fall of coal from pillar.
March 6	John Gashinski,	Polish,	Miner,	43	M.	Hazleton Shaft,		Struck by piece of coal in breast.
18	Michael Evancho,	Slavonian,	Laborer,	26	M.	Jeddo No. 4,		Struck by prop on gangway.
26	Jacob A. Davis,	American,	Repairman,	32	M.	Upper Lehigh,		Caught between derailed car and tree. Outside.
April 9	Herbert Morgan,	American,	Laborer,	17	S.	Highland No. 2,		Squeezed between derailed cars on turn-out—missed sprag. Outside.
June 4	Ignac Yenkevic,	Polish,	Doorboy,	17	S.	Highland No. 5,		Caught between bumpers of cars on gangway.
6	Thomas Breslin,	American,	Miner,	41	M.	Highland No. 2,	Luzerne,	Struck by piece of slate on gangway.
19	Walter Drasher,	American,	Watchman,	32	M.	Drifton,		Caught between bumpers of locomotives. Outside.
July 14	Martin Wargo,	Slavonian,	Trackman,	35	M.	Hazleton No. 1,		Fall of rock on gangway.
	Michael Lopo,	Slavonian,	Laborer,	56	M.	Lattimer,		Struck by car. Outside.
21	Joseph Magaiwski,	Polish,	Repairman,	27	M.	Highland No. 5,		Leg wound around shaft of engine.
24	Lewis Malancavich,	Slavonian,	Miner,	38	M.	Hazleton Shaft,		Falling in breast when foot caught.
Aug. 2	Carl Bosonovitch,	Polish,	Laborer,	39	M.	Jeddo No. 4,		Caught between pole and prop at chute on gangway.
	Daniel Petrick,	Magyar,	Miner,	43	M.	Pond Creek,		Flying coal from pick at face of breast.
15	John Kannuck,	Hungarian,	Dumpman,	46	W.	Drifton,		Caught in shaker in breaker while trying to take off shaker chain. Outside.
19	Frank Russell,	Italian,	Dumpman,	23	S.	Lattimer,		Lifting empty car onto track. Outside.
20	Michael Gasper,	American,	Laborer,	25	S.	Jeddo No. 4,		Struck by coal while loading from chute on gangway.
Sept. 3	Harvey Young,	American,	Carpenter,	46	M.	Upper Lehigh,		Fingers pinched between planks in shop. Outside.
16	John Henshaw,	Slavonian,	Miner,	50	M.	Hazleton Shaft,		Fall of slate in neck of breast.
18	William Bowen,	American,	Machinist,	33	M.	Jeddo No. 4,		Lifting car axle in shop. Outside.
25	James Schmear,	American,	Laborer,	21	S.	Hazleton Shaft,		Kicked by mule on gangway.

Sept.	25	Michael Burak,	Hungarian,	Miner's laborer,	27	M.	Highland No. 2,	Luzerne,	Fall of rock on buggy gangway.
Oct.	17	Samuel Smith,	American,	Miner,	54	S.	Jeddo No. 4,		Fall of coal in breast.
	21	John Costick,	Austrian,	Miner,	51	M.	Hazleton No. 1,		Caught by rush of coal in battery.
	22	John Teliko,	Slavonian,	Miner,	39	M.	Highland No. 5,		Fall of slate in breast.
	25	Paul Gelasko,	Polish,	Miner's laborer,	49	M.	Highland No. 5,		Lifting lump of coal into car on gangway.
Nov.	20	Michael Koslop,	American,	Laborer,	22	S.	Hazleton Shaft,		Caught under wheel of car at dump. Outside.
	25	Shantor Apairy,	Slavonian,	Laborer,	45	M.	Upper Lehigh,		Rail falling on him. Outside.
Dec.	12	William Fedrigan,	American,	Driver,	23	S.	Deringer,		Caught between timber truck and cars on gangway.
	16	Thomas Wysofski,	Polish,	Miner,	35	M.	Hazleton, No. 1,		Fall of coal at pillar work.
	24	Edward Consoroski,	Polish,	Miner,	32	M.	Lattimer,		Fall of coal in breast.
	30	John Bysdell,	American,	Patcher,	20	S.	Upper Lehigh,		Caught between cars. Outside.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held at Hazleton, May 6 and 7. The Board of Examiners was composed of David J. Roderick, Mine Inspector, Hazleton; Charles H. Rohland, Superintendent, Upper Lehigh; James North, Miner, Drifton; John O'Hara, Miner, Hazleton.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

William J. Nicolodi, George W. Wittig, Nuremberg; Charles F. Haganey, Freeland; Henry C. Hill, Milnesville; Joseph B. Conlin, Lattimer Mines; Peter W. Brugger Jr., Weston; Thomas B. Corrigan, Hazleton; Frank Krakoski, West Hazleton.

ASSISTANT MINE FOREMEN

Cyrus Eisenman, Michael Ambruch, Fern Glen; George Mealing, Martin Kusmider, Freeland; Frank B. Gallagher, Upper Lehigh; Frank A. Keiser, James Edmiston, Hazleton.

1919

SIXTEENTH DISTRICT.

Luzerne, Carbon, Schuylkill and Columbia Counties

J. J. Strickler, Inspector, Hazleton.

SUMMARY OF STATISTICS.

Collieries in operation (breakers),	11
Washeries in operation,	1
Mines in district,	63
Gaseous mines in operation,	10
Non-gaseous mines in operation,	53
Tons of coal shipped to market,	2,375,498
Tons used at mines for steam and heat,	310,966
Tons sold to local trade and used by employes,	348,166
Tons produced (gross),	3,034,630
Persons employed inside,	3,214
Persons employed outside,	2,501
Persons employed inside between 16 and 21 years,	239
Persons employed outside between 14 and 21 years,	546
Fatal accidents inside,	14
Fatal accidents outside,	4
Serious non-fatal accidents inside,	32
Serious non-fatal accidents outside,	9
Tons produced per fatal accident inside,	216,759
Tons produced per fatal accident inside and outside,	168,591
Persons employed per fatal accident inside,	230
Persons employed per fatal accident outside,	625
Persons employed per fatal accident inside and outside,	317
Persons employed per non-fatal accident inside,	100
Persons employed per non-fatal accident outside,	78
Persons employed per non-fatal accident inside and outside,	139
Wives made widows,	14
Children made orphans,	38
Steam locomotives outside,	58
Compressed air locomotives inside,	7
Electric motors inside,	14
Electric motors outside,	5
Tubular boilers,	134
Steam engines of all classes,	160
Electric dynamos,	8
Pumps of all classes,	104
Pumps delivering water to surface,	61
Air compressors,	15
Fans in use,	25

TABLE A

Production of Coal

Operators	Gross Tons
Cranberry Creek Coal Company,	749,014
Coxe Brothers and Company, Incorporated,	677,274
Lehigh and Wilkes-Barre Coal Company,	635,408
Charles M. Dodson and Company,	282,229
Lehigh Valley Coal Company,	261,854
Estate of A. S. Van Wickle,	179,147
Harwood Coal Company,	166,768
Evans Colliery Company,	41,037
Beaver Valley Coal Company,	36,038
Thomas R. Reese Coal Company,	5,861
Total,	3,034,630

Production by Counties

Luzerne,	1,448,476
Schuylkill,	968,873
Carbon,	581,243
Columbia,	36,038
Total,	3,034,630

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Cranberry Creek Coal Co.,	1	1	2	5	1	6	749,014	149,803	778	474	1,252	778	474	156	474
Coxe Brothers and Co., Inc.,				3		3		225,758	627	295	922			209	
Lehigh and Wilkes-Barre Coal Co.,	3	1	4	9	3	12	158,852	70,601	648	600	1,248	216	600	72	200
Charles M. Dodson and Co.,	5	2	7	8	2	10	56,446	35,277	277	366	643	55	183	35	183
Lehigh Valley Coal Co.,	2		2	3	1	4	130,927	87,284	312	279	591	156		104	279
Estate of A. S. Van Wickle,	1		1				197,147		191	172	363	191			
Harwood Coal Co.,	1		1	3	2	5	166,768	55,589	221	194	415	221		74	97
Evans Colliery Co.,	1		1				41,037		93	42	135	93			
Beaver Valley Coal Co.,				1		1			59	65	124			59	
Thomas R. Reese Coal Co.,									8	14	22				
Totals and averages,	14	4	18	32	9	41	216,759	94,832	3,214	2,501	5,715	230	625	100	78

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Cranberry Creek Coal Co.						
Cranberry,	Luzerne,	J. B. Warriner,	Hazleton,	A. L. Walbridge,	Hazleton,	Lehigh Valley
Coxe Brothers and Co., Inc.						
Beaver Meadow,	Carbon,	Thomas Thomas,	Wilkes-Barre,	D. S. Wolfe,	Hazleton,	Lehigh Valley
Oneida,	Schuylkill,					
Lehigh and Wilkes-Barre Coal Co.						
Audenried No. 4,	Schuylkill,	Douglas Bunting,	Wilkes-Barre,	Walter Fahringer,	Audenried,	C. R. R. of N. J.
Honey Brook No. 5,						
Charles M. Dodson and Co.						
Beaver Brook,	Luzerne,	B. H. Stockett,	Beaver Brook,	William A. McGinley,	Beaver Brook,	Lehigh Valley C. R. R. of N. J.
Lehigh Valley Coal Co.						
Spring Mountain,	Luzerne,	Thomas Thomas,	Wilkes-Barre,	D. S. Wolfe,	Hazleton,	Lehigh Valley
Spring Brook,	Carbon,					
Spring Brook Washery,						
Estate of A. S. Van Wickle						
Coleraine,	Carbon,			John Harvey,	Hazleton,	P. & R.; C. R. R. of N. J.; L. V.
Harwood Coal Co.						
Harwood,	Luzerne,	J. B. Warriner,	Hazleton,	J. W. Rich,	Hazleton,	Lehigh Valley
Evans Colliery Co.						
Evans,	Carbon,	Gwillym Edwards,	Luzerne,	G. H. Smith,	Hazleton,	Lehigh Valley
Beaver Valley Coal Co.						
Scotch Valley,	Columbia,	William A. Wallace,	Mainville,			Pennsylvania
Thomas R. Reese Coal Co.						
Dusky Diamond,	Luzerne,	Thomas R. Reese,	Audenried,	Thomas R. Reese,	Audenried,	C. R. R. of N. J.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Cranberry Creek Coal Co.												
Cranberry,	Luzerne,	497,151	31,098	220,765	749,014	275	1,252	2	6	10,150	281,403	----------
Coxe Brothers and Co., Inc.												
Beaver Meadow,	Carbon,	311,709	25,567	6,533	343,809	274	407	--------	2	50	120,450	----------
Oneida†,	Schuylkill,	296,043	26,859	10,563	333,465	265	† 515	--------	1	350	153,264	----------
Totals,		607,752	52,426	17,096	677,274	--------	922	--------	3	400	273,714	----------
Lehigh and Wilkes-Barre Coal Co.												
Audenreid No. 4,	Schuylkill*,	305,986	45,350	6,035	357,371	263	673	4	6	4,925	132,850	24,055
Honey Brook No. 5,	Schuylkill,	255,581	22,456	----------	278,037	267	575	--------	6	12,850	130,455	2,850
Totals,		561,567	67,806	6,035	635,408	--------	1,248	4	12	17,775	263,305	26,905
Charles M. Dodson and Co.												
Beaver Brook,	Luzerne,	244,440	36,000	1,789	282,229	276	643	7	10	44,575	105,626	----------
Lehigh Valley Coal Co.												
Spring Mountain,	Luzerne,	183,197	55,762	5,645	244,604	231	443	2	4	3,550	57,030	----------
Spring Brook†,	Carbon,					†	148	--------	--------	450	30,000	----------
		183,197	55,762	5,645	244,604	--------	591	2	4	4,000	87,030	----------
Spring Brook Washery,	Carbon,	17,250	----------	----------	17,250	71	‡	--------	--------	----------	----------	----------
Totals,		200,447	55,762	5,645	261,854	--------	591	2	4	4,000	87,030	----------
Estate of A. S. VanWickle												
Coleraine,	Carbon,	116,808	59,874	2,465	179,147	303	363	1	--------	3,750	44,925	----------
Harwood Coal Co.												
Harwood,	Luzerne,	75,978	----------	90,790	166,768	270	415	1	5	25	53,975	----------

†Coal prepared at Spring Mountain breaker.
‡Employes included with Spring Brook Colliery.
*Slopes Nos. 21 and 23 in Carbon County; no production.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Evans Colliery Co.												
Evans,	Carbon,	38,495	2,000	542	41,037	203	135	1	-------	-------	17,150	13,725
Beaver Valley Coal Co.												
Scotch Valley,	Columbia,	29,627	6,000	341	36,038	241	124	-------	1	4,250	12,000	3,000
Thomas R. Reese Coal Co.												
Dusky Diamond,	Luzerne,	3,363	-------	2,698	5,861	225	22	-------	-------	-------	12,000	-------
Grand totals,	-------	2,375,498	310,966	348,166	3,034,630	-------	5,715	18	41	84,925	1,151,128	43,630

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Cranberry Creek Coal Co.,	Luzerne,	----	----	5	2,900	6	1,350	----	----	1	360	19	19,200	15	18,400	119	----	16	----	12	1	486
Coxe Brothers and Co., Inc.,	Carbon, Schuylkill,	----	----	31	5,800	40	4,500	----	----	----	----	8	7,200	8	4,600	135	----	7	7	----	7	2,350
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	----	----	39	4,600	46	5,915	----	----	2	168	18	18,600	9	9,000	108	----	9	----	1	2	1,000
Charles M. Dodson and Co.,	Luzerne,	----	----	16	2,480	3	2,760	----	----	----	----	23	33,600	8	13,100	28	----	9	----	----	3	100
Lehigh Valley Coal Co.,	Luzerne, Carbon,	----	----	18	2,700	23	3,200	----	----	4	374	10	9,700	8	3,700	33	----	4	----	4	1	350
Estate of A. S. VanWickle,	Carbon,	----	----	18	2,150	36	1,340	----	----	----	----	7	7,347	7	2,466	38	----	5	----	----	1	65
Harwood Coal Co.,	Luzerne,	----	----	----	----	----	----	----	----	----	----	12	7,500	2	3,200	27	----	8	----	----	----	----
Evans Colliery Co.,	Carbon,	----	----	2	700	----	----	----	----	1	50	5	1,800	2	1,500	5	----	----	----	2	----	----
Beaver Valley Coal Co.,	Columbia,	----	----	5	480	6	180	----	----	----	----	2	500	----	----	9	----	----	----	----	----	----
Thomas R. Reese Coal Co.,	Luzerne,	----	----	----	----	----	----	----	----	----	----	*	*	2	*	----	----	----	----	----	----	----
Totals,		----	----	134	21,810	160	119,245	----	----	8	952	104	105,447	61	55,966	502	----	58	7	19	15	4,351

*Not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners.	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Cranberry Creek Coal Co.,	Luzerne,	4	7	2	426	148	------	------	11	10	55	23	16	48	9	2	3	14	778
Coxe Brothers and Co., Inc.,	Carbon, Schuylkill,	4	11	------	361	20	------	------	8	8	61	21	21	43	2	------	6	61	627
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	3	8	1	343	176	------	------	1	1	44	18	6	------	10	2	29	6	648
Charles M. Dodson and Co.,	Luzerne,	1	------	7	77	55	------	------	6	6	18	6	4	18	11	4	1	63	277
Lehigh Valley Coal Co.,	Luzerne, Carbon,	3	5	------	137	24	------	------	6	6	21	6	6	41	13	2	6	36	312
Estate of A. S. Van Wickle,	Carbon,	1	4	2	81	46	------	------	------	------	16	7	------	22	10	------	------	2	191
Harwood Coal Co.,	Luzerne,	2	1	------	127	30	------	------	------	------	16	5	------	18	4	------	------	18	221
Evans Colliery Co.,	Carbon,	1	------	------	52	16	------	------	------	------	14	2	2	3	3	------	------	------	93
Beaver Valley Coal Co.,	Columbia,	1	1	------	20	20	------	------	------	------	8	1	------	4	------	------	------	4	59
Thomas R. Reese Coal Co.,	Luzerne,	1	------	------	2	4	------	------	------	------	1	------	------	------	------	------	------	------	8
Totals,		21	37	12	1,626	539	------	------	32	31	254	89	55	197	62	10	45	204	3,214

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Cranberry Creek Coal Co.,	Luzerne,	--------	4	12	48	31	17	14	11	11	8	318	474	1,252
Coxe Brothers and Co., Inc.,	Carbon,	--------	6	8	18	52	9	7	4	19	7	165	295	922
	Schuylkill,													
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	3	5	7	23	61	2	13	49	1	15	421	600	1,248
Charles M. Dodson and Co.,	Luzerne,	4	5	3	28	48	4	10	20	12	9	223	366	643
Lehigh Valley Coal Co.,	Luzerne,	--------	4	7	16	39	8	4	33	3	5	160	279	591
	Carbon,													
Estate of A. S. Van Wickle,	Carbon,	1	2	2	8	39	2	3	21	6	5	83	172	363
Harwood Coal Co.,	Luzerne,	1	2	2	6	16	1	8	7	1	5	145	194	415
Evans Colliery Co.,	Carbon,	1	1	1	3	2	--------	--------	8	--------	2	24	42	135
Beaver Valley Coal Co.,	Columbia,	1	2	2	2	10	1	2	3	7	1	34	65	124
Thomas R. Reese Coal Co.,	Luzerne,	--------	--------	--------	--------	2	--------	--------	--------	--------	--------	12	14	22
Totals,	--------	11	31	44	152	300	44	61	156	60	57	1,585	2,501	5,715

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Cranberry Creek Coal Co.,	Luzerne,	26	13	13	23	24	25	26	25	25	26	23	26	275
Coxe Brothers and Co., Inc.,	Carbon, Schuylkill,	23	18	13	22	25	24	25	24	25	24	23	24	270
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	25	18	14	23	23	21	25	24	22	25	21	24	265
Charles M. Dodson and Co.,	Luzerne,	26	9	9	26	26	25	26	26	26	27	24	26	276
Lehigh Valley Coal Co.,	Luzerne, Carbon,	26	6	--------	10	24	24	25	22	22	25	22	25	231
Estate of A. S. Van Wickle,	Carbon,	26	24	26	24	26	25	26	25	25	26	24	26	303
Harwood Coal Co.,	Luzerne,	25	10	13	22	24	25	26	25	24	26	24	26	270
Evans Colliery Co.,	Carbon,	25	11	11	5	8	20	17	19	22	21	22	22	203
Beaver Valley Coal Co.,	Columbia,	23	18	--------	18	21	23	22	24	25	22	22	23	241
Thomas R Reese Coal Co.,	Luzerne,	14	--------	--------	23	22	21	24	24	25	26	24	22	225

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident.
Jan. 4	John Metro,	Slavonian,	Laborer,	61	M	1	5	Cranberry,	Luzerne,	Run over by cars on slate bank. Outside.
13	Michael Fota,	Austrian,	Miner's laborer,	53	W		1	Beaver Brook,	Luzerne,	Fall of roof at face of breast.
28	John Fogarty,	American,	Bottomman,	32	M	1	2	Beaver Brook,	Luzerne,	Runaway cars on slope-hitching hook broke.
May 3	Samuel Mastrella,	Italian,	Miner,	31	M	1	4	Audenried No. 4	Schuylkill,	Fall of roof at face of chamber.
	John Kroll,	American,	Sweeper,	17	S			Audenried No. 4	Schuylkill,	Falling on revolving screen. Outside.
24	John Kubity,	Polish,	Miner,	27	M	1	1	Cranberry,	Luzerne,	Fall of roof at face of gangway.
June 14	Joseph Leshisko,	Slavonian,	Miner,	60	M	1		Beaver Brook,	Luzerne,	Blast at face of breast while retreating-shortened match.
	Joseph McAloose,	Italian,	Engineer,	21	S			Beaver Brook,	Luzerne,	Caught between locomotives. Outside.
16	Steve Kutchko,	Austrian,	Trackman,	48	M	1	1	Spring Mountain,	Luzerne,	Caught between car and rib on gangway.
July 8	John Dugitis,	Lithuanian,	Miner,	40	M	1	8	Beaver Brook,	Luzerne,	Caught between car and prop on gangway.
9	John Krafa,	Slavonian,	Miner,	25	M	1	2	Evans,	Carbon,	Fall of roof at face of breast.
15	Frank Burtson,	American,	Miner's laborer	19	S			Audenried No. 4	Schuylkill,	Fall of roof at pillar work.
22	Michael Ziats,	Slavonian,	Miner,	38	M	1	3	Coleraine,	Carbon,	Fall of rock on gangway.
25	Peter Churba,	Austrian,	Miner,	36	M	1	4	Beaver Brook,	Luzerne,	Fall of roof in old workings.
Aug. 16	Martin Rockwell,	American,	Electrician,	33	M	1	2	Beaver Brook,	Luzerne,	Falling off pole while repairing wires Outside.
Sept. 11	John Rogofskie,	Russian,	Miner,	36	M	1	2	Audenried No. 4	Schuylkill,	Fall of coal in pillar work.
Oct. 28	Michael Panko,	Slavonian,	Miner,	38	M	1	3	Harwood,	Luzerne,	Fall of roof at face of gangway.
Nov. 18	Joseph Erdosy,	Austrian,	Miner,	39	M	1		Spring Mountain,	Luzerne,	Fall of roof at face of breast.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 2	Andrew Wasdinski,	Lithuanian,	Miner,	31	S	Cranberry,	Luzerne,	Squeezed between buggy and prop on gangway.
6	John North,	American,	Bratticeman,	62	M	Beaver Meadow,	Carbon,	While hanging door on gangway, block slipped from under it allowing door to fall on foot.
9	Peter Shetleskie,	Polish,	Miner's laborer,	33	M	Audenried No. 4,	Schuylkill,	Fall of rock from rib on gangway.
16	Paul Groman,	Slavonian,	Miner's laborer,	30	M	Beaver Brook,	Luzerne,	Fall of rock at face of breast.
20	Michael Valitus,	Lithuanian,	Laborer,	30	S	Beaver Brook,	Luzerne,	Fall of rock while loading coal into chute.
28	Joseph McFadden,	American,	Doorboy,	17	S	Spring Mountain,	Luzerne,	Fingers pinched between doors on gangway—closing double doors.
Feb. 1	Joseph Gereaco,	Italian,	Laborer,	54	M	Honey Brook No. 5,	Schuylkill,	Caught between door and rod of door.
19	Cologgina Scaggor,	Italian,	Laborer,	50	M	Honey Brook No. 5,	Schuylkill,	Struck by flying coal. Outside.
24	Francis E. Witmer,	American,	Miner's laborer,	42	M	Scotch Valley,	Columbia,	Fall of roof at face of gangway.
March 12	Paul Pinchot,	Russian,	Miner's laborer,	44	M	Beaver Brook,	Luzerne,	Caught between bumpers of cars on gangway.
18	Wasil Kobia,	Slavonian,	Miner,	43	M	Harwood,	Luzerne,	Caught between cars at top of slope. Outside.
20	William Yannelevicz,	Lithuanian,	Miner,	38	M	Harwood,	Luzerne,	Piece of rock falling while lifting it.
21	Patrick Farley,	Irish,	Laborer,	72	M	Cranberry,	Luzerne,	Struck by piece of sheet iron. Outside.
April 2	Michael Stefanko,	Slavonian,	Miner,	34	M	Beaver Brook,	Luzerne,	Burned by gas in manway.
	Joseph Wills,	American,	Rockman,	36	M	Beaver Brook,	Luzerne,	Struck by flying steel—drilling hole in rock at face of gangway.
8	Dominick Perno,	Italian,	Laborer,	20	S	Honey Brook No. 5,	Schuylkill,	Struck by piece of rock in stripping.
18	Robert Kay, Sr.,	English,	Engineer,	63	M	Harwood,	Luzerne,	Caught by circular saw—cutting plank in shop. Outside.
19	Steve Ohrin,	American,	Laborer,	19	S	Honey Brook No. 5,	Schuylkill,	Caught between cars and rib on slope.
25	Louis Coblick,	Polish,	Miner	35	M	Beaver Brook,	Luzerne,	Fall of roof at face of breast.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
May 19	Joseph Skiptumas,	Lithuanian,	Miner,	46	M.	Audenried No. 4,	Schuylkill,	Fall of roof at face of breast.
June 5	John Glade,	American,	Laborer,	24	S.	Honey Brook No. 5,	Schuylkill,	Explosion of detonator—taking fuse off cap. Outside.
7	George Kochuck,	American,	Doorboy,	18	S.	Spring Mountain,	Luzerne,	Falling under cars in breast.
12	Joseph Notch,	Hungarian,	Miner,	50	M.	Beaver Meadow,	Carbon,	Flying coal from blast at face of breast.
17	Winslow Sockloskie,	Polish,	Miner,	54	M.	Audenried No. 4,	Schuylkill,	Explosion of detonator—tamping hole at face of breast.
	Joseph Casper,	Polish,	Laborer,	22	S.	Beaver Brook,	Luzerne,	Stepping off locomotive. Outside.
28	Frank Sirian,	American,	Hitcher,	35	M.	Audenried No. 4,	Schuylkill,	Caught between cars. Outside.
July 15	Steve Beranko,	Slavonian,	Miner,	29	M.	Audenried No. 4,	Schuylkill,	Fall of roof at face of breast.
16	Ferdinand Petroney,	Tyrolean,	Miner,	41	M.	Oneida,	Schuylkill,	Blast at face of breast.
21	John Muchock,	Austrian,	Miner,	28	S.	Spring Mountain,	Luzerne,	Fall of slate from roof at face of breast.
22	John Hacket,	American,	Blacksmith,	49	M.	Audenried No. 4,	Schuylkill,	Kicked by mule while taking off shoe on gangway.
Aug. 2	Steve Hudak,	Austrian,	Miner,	47	M.	Beaver Brook,	Luzerne,	Fall of roof at face of breast.
7	Philip Metrician,	Russian,	Miner's laborer,	58	M.	Honey Brook No. 5,	Schuylkill,	Struck by flying slate from pick—making hole for prop at face of breast.
9	John Poblic, Jr.,	American,	Slatepicker,	18	S.	Spring Mountain,	Luzerne,	Falling into chute in breaker. Outside.
18	John Marzik,	Slavonian,	Miner,	53	M.	Cranberry,	Luzerne,	Prop falling at face of breast.
Sept. 6	Stanley Malec,	Polish,	Miner,	29	M.	Cranberry,	Luzerne,	Fall of roof at face of breast.
Oct. 4	Nicholas Hildebrand,	American,	Miner,	50	M.	Cranberry,	Luzerne,	Fall of coal from rib on gangway.
6	James McFadden,	American,	Laborer,	36	S.	Beaver Brook,	Luzerne,	Falling from chute. Outside.
	Edward Barndudt,	American,	Laborer,	26	S.	Cranberry,	Luzerne,	Caught between buggy and rib in breast.
Nov. 11	Thomas O'Donnell,	American,	Laborer,	33	S.	Harwood,	Luzerne,	Derailed car at bottom of slope.
28	Stanley Tomala,	Polish,	Miner,	23	M.	Harwood,	Luzerne,	Rush of coal in pillar chute.
Dec. 6	John Gladda,	Austrian,	Miner's laborer,	49	M.	Beaver Brook,	Luzerne,	Piece of coal penetrating thumb—infection.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held at Hazelton, May 6 and 7. The Board of Examiners was composed of J. J. Stickler, Mine Inspector, Hazelton; J. E. Anderson, Engineer, Hazelton; Harry Wear, Miner, Beaver Brook; Michael Flynn, Miner, Hazelton.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Robert Gill, Hazelton; Charles Smith, McAdoo; John K. Morgan, Patrick Hartneady, George T. Morgan, Nesquehoning; Robert Bacon, James E. Coll, Lansford.

ASSISTANT MINE FOREMEN

Charles Nause, Joseph F. Hacker, Hazelton; John K. Kish, McAdoo; John Ecker, Oneida; Andrew G. Tobias, Beaver Brook; John Malloy, Beaver Meadow; John D. Williams, Daniel Barry, Nesquehoning; Oscar Taylor, Coaldale; Bert Williams, Neal Harkins, Daniel Fisher, Lansford; John X. Jones, John L. McFadden, James Furnell, Summit Hill; John Matyas, Park View.

1919

SEVENTEENTH DISTRICT.

Carbon and Schuylkill Counties

Isaac M. Davies, Inspector, Lansford.

SUMMARY OF STATISTICS.

Collieries in operation (breakers)	5
Washeries in operation	2
Mines in district	24
Gaseous mines in operation,	18
Non-gaseous mines in operation,	6
Tons of coal shipped to market,	3,465,293
Tons used at mines for steam and heat,	316,316
Tons sold to local trade and used by employes,	21,000
Tons produced (gross),	3,802,609
Persons employed inside	4,061
Persons employed outside,	2,263
Persons employed inside between 16 and 21 years,	337
Persons employed outside between 14 and 21 years,	366
Fatal accidents inside,	23
Fatal accidents outside,	5
Serious non-fatal accidents inside,	57
Serious non-fatal accidents outside,	18
Tons produced per fatal accident inside,	165,331
Tons produced per fatal accident inside and outside,	135,807
Persons employed per fatal accident inside,	177
Persons employed per fatal accident outside,	453
Persons employed per fatal accident inside and outside,	226
Persons employed per non-fatal accident inside,	71
Persons employed per non-fatal accident outside,	126
Persons employed per non-fatal accident inside and outside,	84
Wives made widows,	22
Children made orphans,	59
Steam locomotives outside,	43
Electric motors inside,	84
Tubular boilers,	79
Steam engines of all classes,	47
Pumps of all classes,	19
Pumps delivering water to surface,	10
Air compressors,	14
Fans in use,	17

TABLE A

Production of Coal

Operators	Gross Tons
Lehigh Coal and Navigation Company	3,802,609

Production by Counties

Carbon	2,526,406
Schuylkill	1,276,203
Total	3,802,609

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Lehigh Coal and Navigation Co.,	23	5	28	57	18	75	165,331	66,712	4,061	2,263	6,324	177	453	71	126
Totals and averages,	23	5	28	57	18	75	165,331	66,712	4,061	2,263	6,324	177	453	71	126

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Lehigh Coal and Navigation Co.						
Nesquehoning,	Carbon,	E. Ludlow, Vice-President,	Lansford,	W G. Whildin,	Lansford,	C. R. R. of N. J., L. & N. E.
Lansford,	Carbon,					
Coaldale,	Carbon and Schuylkill,					
Greenwood,	Schuylkill,					
Rahn,	Schuylkill,					
Hauto Washery,						
Ashton Washery,	Carbon,					

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Lehigh Coal and Navigation Co.,												
Nesquehoning,	Carbon,	804,693	30,724	7,272	842,689	279	1,358	5	26	2,603	297,070	102,300
Lansford,	Carbon,	760,613	127,807	3,509	891,929	266	1,676	10	23	----------	352,705	84,425
Coaldale,	Carbon, Schuylkill,	805,539	43,504	5,665	854,708	272	1,557	1	11	1,105	359,006	123,324
Greenwood,	Schuylkill,	352,658	48,781	192	401,631	272	769	7	6	----------	189,930	26,605
Rahn,	Schuylkill,	424,858	20,699	1,661	447,218	264	811	5	8	----------	133,908	[illegible]
		3,148,361	271,515	18,299	3,138,175	--------	6,171	28	74	3,708	1,332,769	378,984
Washeries												
Hauto,	Carbon,	201,667	18,688	344	220,699	217	87	--------	1	----------	18,425	----------
Ashton,		115,265	26,113	2,357	143,735	158	66	--------	--------	----------	10	19,955
		316,932	44,801	2,701	364,434	--------	153	--------	1	----------	18,435	19,955
Totals		3,465,293	316,316	21,000	3,802,609	--------	6,324	28	75	3,708	1,351,204	398,939

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers						Engines									Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Lehigh Coal and Navigation Co.,	Carbon, Schuylkill	----	--------	79	18,298	47	19,995	----	--------	----	--------	19	42,000	10	19,700	125	----	43	----	84	14	15,491

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miner's laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattleemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Lehigh Coal and Navigation Co.,	Carbon, Schuylkill,	29	19	61	1,760	54	------	------	106	73	59	70	44	721	6	48	27	984	4,061

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Lehigh Coal and Navigation Co.,	Carbon, Schuylkill,	9	18	45	181	321	247	44	115	108	45	1,130	2,263	6,324

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Lehigh Coal and Navigation Co., -----	Carbon, -------- Schuylkill, -----	26	16	13	23	24	24	24	25	24	26	22	24	271

TABLE 4.—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	23	Andrew Boneski,	Slavonian,	Platform-man,	49	M	1		Greenwood,	Schuylkill,	Falling down chute. Outside.
Feb.	6	Michael Curry,	Slavonian,	Miner,	53	M	1	3	Coaldale,	Carbon,	Fall of coal from rib in breast.
	27	William Delay,	American,	Door-tender,	48	M	1		Greenwood,	Schuylkill,	Cars on gangway.
April	2	William MacSheffery,	American,	Miner,	45	S			Lansford,	Carbon,	Suffocated by gas in chute.
	14	Steve Lodman,	Slavonian,	Miner,	30	M	1		Greenwood,	Schuylkill,	Timber falling on gangway.
	17	George Yenn,	American,	Miner,	34	M	1	3	Greenwood,	Schuylkill,	Falling down chute.
May	7	Wash Hemerche,	Austrian,	Miner,	39	M	1		Rahn,	Schuylkill,	Suffocated by rush of coal in chute.
	12	Morris Oranger,	American,	Loader boss,	41	M	1	3	Nesquehoning,	Carbon,	Cars. Outside.
June	30	John Bowan,	Austrian,	Miner,	27	M	1	3	Nesquehoning,	Carbon,	Explosion of gas in shaft.
July	8	Howard Ballett,	American,	Motorman,	25	S			Lansford (No. 4 Slope),	Carbon,	Explosion of gas on gangway. A large quantity of gas was liberated by firing of shots in Mammoth Vein, No. 15, filling Nos. 15 and 16 chutes in Skidmore Vein with gas. An investigation failed to show cause of explosion.
		Mike Borck,	Polish,	Chargeman,	33	M	1	1			
		Mike Hycheck,	Austrian,	Miner,	31	M	1	4			
		Vaidyboil Soskol,	Polish,	Miner,	33	M	1	2			
		John Guidas,	Austrian,	Miner,	35	M	1	6			
		William Betz,	American,	Miner,	46	M	1	2			
		Joseph Staminock,	Polish,	Machine helper,	38	M	1	4			
		John Boadling,	Polish,	Miner,	42	M	1	3			
	9	George Oxley,	American,	Laborer,	42	S			Nesquehoning,	Carbon,	Struck by steam shovel. Outside.
Aug.	1	Andrew Hudock,	Slavonian,	Miner,	27	M	1	3	Nesquehoning,	Carbon,	Explosion of gas in chamber.
Sep.	6	John Blazek,	Slavonian,	Mucker,	38	M	1		Greenwood,	Schuylkill,	Fall of roof on gangway.
	17	Steve Gratz,	Austrian,	Batteryman,	43	M	1	8	Rahn,	Schuylkill,	Rush of coal in chute.
	24	Peter Farchelli,	Italian,	Trackman,	29	S			Lansford,	Carbon,	Motor on gangway.
	27	Charles Sheridan,	American,	Laborer,	27	S			Nesquehoning,	Carbon,	Caught between cars. Outside.
Nov.	19	Harry Aston,	American,	Motorman,	29	M	1	3	Greenwood,	Schuylkill,	Fall of roof on gangway.
	20	Andrew Pavalick,	Slavonian,	Miner,	43	M	1	6	Rahn,	Schuylkill,	Fall of roof at face of chamber.
Dec.	5	Lester Herron,	American,	Runner,	19	S			Greenwood,	Schuylkill,	Cars on dump. Outside.
	29	John Grinzo,	Slavonian,	Miner,	31	M	1	3	Rahn,	Schuylkill,	Falling timber on gangway.
		Thomas Brown,	American,	Miner,	53	M	1	2			

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 7	Lewis Diganzo,	Italian,	Machine helper,	23	S.	Nesquehoning,	Carbon,	Machine falling.
22	Idas Gilbert,	American,	Miner,	47	W.	Greenwood,	Schuylkill,	Fall of coal from rib in chute.
23	Fritz Pisco,	Austrian,	Loader,	25	S.	Lansford,	Carbon,	Cars.
28	Frank Climinick,	Slavonian,	Miner,	30	M.	Nesquehoning,	Carbon,	Burned by explosion of gas.
	Michael F. Mulligan,	American,	Miner,	47	M.			
30	John W. McHugh,	American,	Miner,	45	M.	Coaldale,	Schuylkill,	Slipping and falling on piece of sheet iron.
	George Ranger,	Slavonian,	Battery starter,	26	M.	Nesquehoning,	Carbon,	Piece of coal rolling down chute.
	Lewis Rix,	American,	Carpenter,	54	M.	Coaldale,	Carbon,	Struck by hammer. Outside.
Feb. 1	Wilbur Brown,	American,	Brakeman,	27	M.	Nesquehoning,	Carbon,	Cars. Outside.
11	Albert Nicholas,	Austrian,	Miner,	56	M.	Coaldale,	Schuylkill,	Fall of rock from rib in chamber.
	Moses Jenkins,	Welsh,	Laborer,	72	S.	Nesquehoning,	Carbon,	Cage suddenly stopped as it was descending shaft.
19	Nicola Difeble,	Italian,	Platform-man,	16	S.	Lansford,	Carbon,	Falling down steps. Outside.
	Jerry McGeehan,	American,	Miner,	56	M.	Rahn,	Schuylkill,	Piece of sliding slate.
March 3	Herbert Whildin,	American,	Carpenter,	32	S.	Coaldale,	Schuylkill,	Retracking box car. Outside.
11	Robert Krause,	American,	Batteryman,	54	M.	Coaldale,	Schuylkill,	Cars.
12	Edward Kissner,	American,	Miner,	40	M.	Lansford,	Carbon,	Coupling motor to trip.
13	Wash Morbetsky,	Austrian,	Miner,	29	M.	Nesquehoning,	Carbon,	Lifting timber.
14	George Horwat,	Slavonian,	Miner,	35	M.	Nesquehoning,	Carbon,	Lifting gangway collar.
18	Thos. H. Whitehead,	English,	Miner,	28	M.	Nesquehoning,	Carbon,	Struck by piece of coal—starting coal in chute.
	James H. Donald,	English,	Miner,	46	S.	Nesquehoning,	Carbon,	Washed down chute in rush of coal.
	Steve Kondarish,	Slavonian,	Pole-man,	17	S.	Nesquehoning,	Cabron,	Heel rubbed by boot causing an abrasion that became infected.
April 4	Vendel Washousky,	Austrian,	Miner,	19	S.	Coaldale,	Schuylkill,	Lifting plank on cage—strained.
5	John Tucker,	American,	Motorman,	19	S.	Lansford,	Carbon,	Cars.
	Luther Kellar,	American,	Engineer,	24	M.	Hauto Washery,	Carbon,	Plank breaking and causing him to fall. Outside.
8	Michael Vign,	Polish,	Miner,	33	M.	Lansford,	Carbon,	Fall of roof in chute.
10	John Lopata,	Slavonian,	Laborer,	55	M.	Greenwood,	Schuylkill,	Cars in stripping. Outside.
22	August Morgans,	American,	Engineer,	25	M.	Coaldale,	Schuylkill,	Cars. Outside.
23	George Rose,	American,	Shaft-boss,	31	M.	Lansford,	Carbon,	Cars.
May 2	Steve Hcraga,	Slavonian,	Miner,	45	M.	Rahn,	Schuylkill,	Fall of coal from rib in chute.
29	William Reese,	American,	Electrician,	39	M.	Nesquehoning,	Carbon,	Lifting oxygen tank—strained. Outside.
June 2	Steve Kutinsky,	Slavonian,	Batteryman,	43	M.	Rahn,	Schuylkill,	Falling down chute.
11	Steve Fritz,	Austrian,	Miner,	29	M.	Greenwood,	Schuylkill,	Falling down chute.
13	William Evans,	American,	Runner,	18	S.	Rahn,	Schuylkill,	Cars.
27	John Kuiko,	Slavonian,	Laborer,	49	M.	Lansford,	Carbon,	Cars.

TABLE 5.—Concluded.

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
June 30	Oliver Jenkins,	American,	Miner,	31	S.	Nesquehoning,	Carbon,	Burned by explosion of gas.
	Mike Kopl,	Slavonian,	Miner,	31	M.			
	George Marencheck,	Austrian,	Laborer,	77	M.	Lansford,	Carbon,	Rail falling on foot. Outside.
	John Lenkhoff,	American,	Carpenter,	19	S.	Rahn,	Schuylkill,	Cars. Outside.
July 5	Mike Flayzik,	Slavonian,	Miner,	54	M.	Lansford,	Carbon,	Struck by piece of timber on gangway.
8	Peter Kowalik,	Polish,	Miner,	30	S.	Lansford,	Carbon,	Burned by explosion of gas.
	Owen Roberts,	American,	Machineman,	39	M.			
	Albert Stone,	English,	Machineman,	33	M.			
11	Metro Smally,	Austrian,	Trackman,	23	M.	Nesquehoning,	Carbon,	Coupling cars. Outside.
July 21	Paul Kuvinetts,	Austrian,	Loader,	45	M.	Greenwood,	Schuylkill,	Struck by piece of coal falling from car.
	Mike Turnases,	Austrian,	Miner,	28	M.	Nesquehoning,	Carbon,	Washed down chute by rush of water.
30	Ray Arner,	American,	Laborer,	19	S.	Lansford,	Carbon,	Knocked off truck.
Aug. 1	John Johninka,	Slavonian,	Miner,	29	M.	Nesquehoning,	Carbon,	Burned by explosion of gas.
9	John J. Baker,	American,	Carpenter,	56	M.	Nesquehoning,	Carbon,	Cars. Outside.
11	John Webber,	Austrian,	Miner,	33	S.	Lansford,	Carbon,	Falling while loading car.
16	Thomas L. Evans,	American,	Miner,	25	M.	Rahn,	Schuylkill,	Fall of top coal.
19	Richard Trevorah,	American,	Miner,	31	M.	Rahn,	Schuylkill,	Struck by battery gate.
20	Richard Donald,	American,	Motorman,	19	S.	Nesquehoning,	Carbon,	Explosion of powder on gangway.
	Frank Paul,	Italian,	Laborer,	22	M.			
	Joseph Kakos,	American,	Laborer,	20	S.	Lansford,	Carbon,	Cars.
27	Charles Zalut,	Austrian,	Miner,	41	M.	Greenwood,	Schuylkill,	Timber falling on him.
Sept. 3	Frank Gasker,	German,	Miner,	33	M.	Nesquehoning,	Carbon,	Burned by explosion of gas.
9	George Foster,	American,	Laborer,	57	M.	Lansford,	Carbon,	Stepped on spike. Outside.
14	Albert Ult,	American,	Sawyer,	54	M.	Lansford,	Carbon,	Falling while loading timber. Outside.
16	Charles McGorrey,	American,	Loader,	21	S.	Nesquehoning,	Carbon,	Flying piece of coal.
18	Michael Rochita,	Austrian,	Miner,	49	M.	Lansford,	Carbon,	Burned by explosion of gas ignited by pipe.
	John Biasi,	Austrian,	Miner,	25	S.	Coaldale,	Schuylkill,	Fall of top coal at face of chamber.
19	Charles Kinda,	Lithuanian,	Miner,	40	M.	Coaldale,	Schuylkill,	Jumping off chute spout.
20	John Miklisky,	Austrian,	Miner,	44	M.	Lansford,	Carbon,	Burned by explosion of gas.
28	Albert Blew,	American,	Laborer,	55	M.	Rahn,	Schuylkill,	Fixing rod on car. Outside.
Oct. 6	Lukash Zorice,	Slavonian,	Miner,	33	M.	Lansford,	Carbon,	Premature blast at face.
9	Anthony Bashisko,	Russian,	Miner,	38	M.	Greenwood,	Schuylkill,	Fall of top coal at face of gangway.
10	Henry Pollock,	American,	Laborer,	49	W.	Nesquehoning,	Carbon,	Pushing cars. Outside.
Nov. 3	Milford McElmoyle,	American,	Miner,	32	M.	Nesquehoning,	Carbon,	Fall of top coal in manway.
10	Angelo Galech,	Italian,	Mucker boss,	38	M.	Lansford,	Carbon,	Lifting heavy material.
17	Louis Mancusa,	Italian,	Laborer,	18	S.	Nesquehoning,	Carbon,	Falling off engine. Outside.
20	Morris Boyle,	American,	Miner,	50	M.	Lansford,	Carbon,	Fall of top coal.
Dec. 15	Steve Sneceak,	Austrian,	Laborer,	67	M.	Lansford,	Carbon,	Cars. Outside.
19	Andy Odis,	Austrian,	Miner,	58	M.	Coaldale,	Schuylkill,	Explosion of blast.
24	Joseph Mushan,	American,	Runner,	33	S.	Nesquehoning,	Carbon,	Cars on gangway.
	Joseph Edwards,	American,	Laborer,	70	M.	Coaldale,	Carbon,	Water splashed into eye—infection.

1919

EIGHTEENTH DISTRICT.

Schuylkill County.

E. G. Evans, Inspector, Coaldale.

SUMMARY OF STATISTICS.

Collieries in operation (breakers)	17
Washeries in operation	1
Mines in district	45
Gaseous mines in operation,	22
Non-gaseous mines in operation,	23
Tons of coal shipped to market,	2,976,826
Tons used at mines for steam and heat,	376,362
Tons sold to local trade and used by employes,	43,700
Tons produced (gross)	3,396,888
Persons employed inside,	3,969
Persons employed outside,	2,313
Persons employed inside between 16 and 21 years,	260
Persons employed outside between 14 and 21 years,	548
Fatal accidents inside,	15
Fatal accidents outside,	3
Serious non-fatal accidents inside,	42
Serious non-fatal accidents outside,	10
Tons produced per fatal accident inside,	226,460
Tons produced per fatal accident inside and outside,	188,716
Persons employed per fatal accident inside,	265
Persons employed per fatal accident outside,	771
Persons employed per fatal accident inside and outside,	349
Persons employed per non-fatal accident inside,	95
Persons employed per non-fatal accident outside,	231
Persons employed per non-fatal accident inside and outside,	121
Wives made widows,	8
Children made orphans,	16
Steam locomotives outside,	47

Compressed air locomotives inside,	8
Electric motors inside,	39
Electric motors outside,	4
Gasoline locomotives inside,	2
Cylindrical boilers,	2
Tubular boilers,	136
Steam engines of all classes,	226
Internal combustion engines (gas),	2
Electric dynamos,	16
Pumps of all classes,	124
Pumps delivering water to surface,	37
Air compressors,	26
Fans in use,	32
New mines opened,	5

TABLE A

Production of Coal.

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company	1,369,172
Lehigh Coal and Navigation Company	449,896
Lehigh Valley Coal Company	410,340
Mill Creek Coal Company	301,982
Maryd Coal Company	283,522
St. Clair Coal Company	209,949
Alliance Coal Mining Company	179,198
Port Carbon Coal Company	70,036
East Lehigh Coal Company	69,845
Gorman and Campion Coal Company	39,319
Bergen Coal Company	13,629
Total	3,396,888

Production by Counties

Schuylkill	3,396,888

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident.

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	4	2	6	26	5	31	342,293	52,660	1,567	869	2,436	392	435	60	174
Lehigh Coal and Navigation Co.,	3	------	3	5	1	6	149,965	89,979	506	291	797	168	----------	101	291
Lehigh Valley Coal Co.,	4	1	5	1	3	4	102,585	410,340	427	126	553	107	126	427	42
Mill Creek Coal Co.,	1	------	1	------	------	------	301,982	----------	374	236	610	374	----------	----------	----------
Maryd Coal Co.,	------	------	------	7	------	7	----------	40,503	276	143	419	----------	----------	39	----------
St. Clair Coal Co.,	1	------	1	2	1	3	209,949	104,974	455	201	656	455	----------	227	201
Alliance Coal Mining Co.,	------	------	------	1	------	1	----------	179,198	123	287	410	----------	----------	123	----------
Port Carbon Coal Co.,	2	------	2	------	------	------	35,018	----------	55	33	88	28	----------	----------	----------
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	186	127	313	----------	----------	----------	----------
Totals and averages,	15	3	18	42	10	52	226,400	80,879	3,969	2,313	6,282	265	771	95	231

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co. Silver Creek, Wadesville, Eagle Hill, Reevesdale, Pine Forest Schuylkill Washery,	Schuylkill,	George B. Hadesty,	Pottsville,	Leslie D. Lamont, Division Supt. David Jones, Inside District Supt., William Tiley Peter Wendel Outside District Supt.	Pottsville,	P. & R.
Lehigh Coal and Navigation Co. Tamaqua,	Schuylkill,	W. G. Whildin, Manager	Lansford,	Donald K. Glover,	Lansford,	L. & N. E.
Lehigh Valley Coal Co. Buck Mountain,	Schuylkill,	Thomas Thomas,	Wilkes-Barre,	John W. Price,	Mahanoy City,	Lehigh Valley.
Mill Creek Coal Co. Morea, Middle Lehigh, Wolf Creek,	Schuylkill,	J. E. Jones, General Manager.	New Boston,	William L. Thomas, Inside, Frank B. Patterson, Outside,	Morea, New Boston,	Penna.; Lehigh Valley.
Maryd Coal Co. Maryd,	Schuylkill,	T. E. Snyder,	Hazleton,	Philip Maue,	Maryd,	C. R. R. of N. J.; P. & R.
St. Clair Coal Co. St. Clair,	Schuylkill,			William T. Smith,	Pottsville,	P. & R.
Alliance Coal Mining Co. Alliance,	Schuylkill,	J. B. Warriner, Manager	Hazleton,	D. C. Helms,	Kaska William,	P. & R.
Port Carbon Coal Co. Lucy R.,	Schuylkill,	H. D. Johnson,	Pottsville,	D. P. Pace,	Pottsville,	P. & R.
East Lehigh Coal Co. East Lehigh,	Schuylkill,	E. M. B. Shepp,	Tamaqua,	E. M. B. Shepp,	Tamaqua,	L. & N. E.; P. & R.
Gorman and Campion Coal Co. Bell,	Schuylkill,	Daniel J. Slattery,	Silver Creek P. O.,	Daniel J. Slattery,	Silver Creek P. O.	P. & R.
Bergen Coal Co. Bergen,	Schuylkill,	Thomas D. Bergen,	Pottsville,	Thomas D. Bergen,	Pottsville,	Haul to P. & R.
Hudson Coal Co. Milford*,	Schuylkill,	Charles Dorrance, General Manager,	Scranton,	Charles Wagner,	Pottsville,	P. & R.

*Old operation being reopened.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Silver Creek,	Schuylkill,	425,442	39,825	5,226	470,493	278	891	3	7	2,625	274,124	----------
Wadesville,	Schuylkill,	272,249	55,885	6,694	334,828	279	726	2	9	1,100	30,220	104,423
Eagle Hill,	Schuylkill,	228,949	55,793	6,314	291,056	274	589	1	12	----------	78,395	32,635
Reevesdale,	Schuylkill,	64,497	4,500	----------	68,997	80	125	--------	3	----------	7,333	2,629
Pine Forest,	Schuylkill,	169,033	11,392	6	180,431	273	95	--------	--------	----------	475	250
		1,160,170	167,395	18,240	1,345,805	--------	2,436	6	31	3,725	390,547	139,937
Schuylkill Washery,	Schuylkill,	22,237	1,130	----------	23,367	38	--------	--------	--------	----------	307	50
Totals,	----------	1,182,407	168,525	18,240	1,369,172	--------	2,436	6	31	3,725	390,854	139,987
Lehigh Coal and Navigation Co.												
Tamaqua,	Schuylkill,	387,907	60,117	2,772	449,896	274	797	3	6	45,150	199,850	31,380
Lehigh Valley Coal Co.												
Buck Mountain,	Schuylkill,	375,296	33,978	1,066	410,340	279	553	5	4	1,950	14,950	226,712
Mill Creek Coal Co.												
Morea,	Schuylkill,	172,584	2,271	1,111	175,966	263	328	--------	--------	----------	90,962	----------
Middle Lehigh,	Schuylkill,	55,696	23,500	668	79,864	258	192	1	--------	5,650	22,840	----------
Wolf Creek,	Schuylkill,	42,671	3,481	----------	46,152	266	90	--------	--------	725	46,152	----------
Totals,	----------	270,951	29,252	1,779	301,982	--------	610	1	--------	6,375	159,954	----------
Maryd Coal Co.												
Maryd,	Schuylkill,	235,701	45,760	2,061	283,522	239	419	--------	7	----------	----------	116,700

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissable explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
St. Clair Coal Co.												
St. Clair,	Schuylkill,	188,635	18,000	3,314	209,949	263	656	1	3	127,000	97,000	
Alliance Coal Mining Co.												
Alliance,	Schuylkill,	164,898	12,000	2,300	179,198	244	410		1	100	72,000	6,000
Port Carbon Coal Co.												
Lucy R,	Schuylkill,	69,395	580	61	70,036	271	88	2			612	11,476
East Lehigh Coal Co.												
East Lehigh,	Schuylkill,	59,165	4,700	5,980	69,845	220	170				26,725	1,000
Gorman and Campion Coal Co.												
Bell,	Schuylkill,	35,316	3,600	1,003	39,319	276	93					16,675
Bergen Coal Co.												
Bergen,	Schuylkill,	8,055	250	5,124	13,629	250	42			100	9,600	9,700
Hudson Coal Co.												
Milford,*	Schuylkill,						8					
Grand totals,		2,976,826	376,362	43,700	3,396,888		6,282	18	52	181,400	971,555	550,630

* Old operation being reopened

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	----	--------	56	8,720	140	19,869	----	--------	11	1,525	55	33,383	6	4,048	208	----	14	4	9	10	9,460
Lehigh Coal and Navigation Co.,		----	--------	10	2,700	9	4,565	----	--------	1	200	4	6,000	4	2,000	15	----	4	----	10	3	3,795
Lehigh Valley Coal Co.,		----	--------	7	2,100	22	6,580	----	--------	1	125	13	12,800	2	3,000	78	----	4	4	----	3	1,690
Mill Creek Coal Co.,		----	--------	21	3,240	15	2,050	----	--------	----	--------	20	30,300	12	3,800	61	----	6	----	8	4	1,550
Maryd Coal Co.,		----	--------	12	2,100	17	2,500	----	--------	----	--------	6	8,400	4	1,500	45	2	2	----	2	2	1,700
St. Clair Coal Co.,		----	--------	8	1,210	5	700	1	5	----	--------	18	14,300	5	3,300	34	----	13	----	7	1	500
Alliance Coal Mining Co.,		----	--------	10	1,000	8	800	1	4	1	300	1	400	1	2,000	10	----	4	----	2	3	1,000
Port Carbon Coal Co.,		----	--------	2	30	----	--------	----	--------	1	--------	----	--------	----	--------	6	----	----	----	3	----	--------
East Lehigh Coal Co.,		----	--------	8	1,800	2	130	----	--------	1	200	6	3,200	3	2,500	19	----	----	----	2	----	--------
Gorman and Campion Coal Co.,		----	--------	2	300	5	150	----	--------	----	--------	1	300	----	--------	10	----	----	----	----	----	--------
Bergen Coal Co.,		2	80	----	--------	3	70	----	--------	----	--------	----	--------	----	--------	2	----	----	----	----	----	--------
Hudson Coal Co.,*		----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	2	----	----	----	----	----	--------
Totals		2	80	136	23,200	226	37,414	2	9	16	2,350	124	109,083	37	22,148	490	2	47	8	43	26	19,695

*Old operation being reopened.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inisde																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners,	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	7	24	------	865	91	------	------	6	------	93	31	45	135	2	------	1	267	1,567
Lehigh Coal and Navigation Co.,	Schuylkill,	3	3	8	193	15	------	------	15	10	12	8	4	102	------	8	3	122	506
Lehigh Valley Coal Co.,	Schuylkill,	2	16	------	294	38	------	------	------	------	25	15	6	3	2	------	7	19	427
Mill Creek Coal Co.,	Schuylkill,	3	2	6	210	34	------	------	8	8	20	9	4	17	9	2	1	41	374
Maryd Coal Co.,	Schuylkill,	1	1	8	173	18	------	------	3	1	25	3	4	11	4	------	3	21	276
St. Clair Coal Co.,	Schuylkill,	2	------	8	205	62	------	------	6	6	18	4	5	5	4	3	8	119	455
Alliance Coal Mining Co.,	Schuylkill,	1	------	1	59	5	------	------	2	2	7	2	1	7	1	9	1	25	123
Port Carbon Coal Co.,	Schuylkill,	1	2	2	20	4	------	------	4	2	3	1	------	2	------	1	------	13	55
East Lehigh Coal Co.,	Schuylkill,	1	1	1	45	10	------	------	2	1	15	2	1	15	3	1	2	10	110
Gorman and Campion Coal Co.,	Schuylkill,	1	1	------	28	6	------	------	------	------	6	1	------	------	------	------	2	5	50
Bergen Coal Co.,	Schuylkill,	1	------	------	10	6	------	------	------	------	3	1	------	------	------	------	------	------	21
Hudson Coal Co.,	Schuylkill,	1	------	------	2	2	------	------	------	------	------	------	------	------	------	------	------	------	5
Totals,		24	50	34	2,104	291	------	------	46	30	227	77	70	297	25	24	28	642	3,969

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen,	Slate-pickers (boys)	Slate-pickers (men)	Office employes,	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	--------	5	11	42	95	11	9	78	32	17	569	869	2,436
Lehigh Coal and Navigation Co.,		2	3	8	16	37	22	3	31	5	6	158	291	797
Lehigh Valley Coal Co.,		--------	1	5	13	23	2	2	5	--------	3	72	126	553
Mill Creek Coal Co.,		2	4	4	7	33	2	--------	7	18	4	155	236	610
Maryd Coal Co.,		1	2	3	12	29	2	3	26	2	5	58	143	419
St. Clair Coal Co.,		2	2	2	17	18	1	2	18	17	4	118	201	656
Alliance Coal Mining Co.,		1	1	3	24	17	4	9	19	12	5	192	287	410
Port Carbon Coal Co.,		1	1	1	3	3	--------	--------	10	--------	--------	14	33	88
East Lehigh Coal Co.,		1	1	1	2	7	2	1	8	--------	2	35	60	170
Gorman and Campion Coal Co.,		1	1	1	1	3	1	--------	4	2	1	28	43	93
Bergen Coal Co.,		--------	1	--------	1	2	--------	--------	5	--------	--------	12	21	42
Hudson Coal Co.,		--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	3	3	8
Totals,	--------	11	22	39	138	367	47	29	511	88	47	1414	2,313	6,282

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	26	14	12	16	20	20	21	20	20	20	23	25	237
Lehigh Coal and Navigation Co.,		25	16	14	22	23	25	25	25	24	26	22	26	274
Lehigh Valley Coal Co.,		25	22	16	22	25	23	26	24	25	26	21	24	279
Mill Creek Coal Co.,		25	14	9	20	23	23	26	25	25	24	23	24	261
Maryd Coal Co.,		22	10	13	20	25	22	23	20	22	22	19	21	259
St. Clair Coal Co.,		25	7	15	21	25	22	26	25	25	26	23	23	263
Alliance Coal Mining Co.,		26	3	--------	13	26	25	25	26	24	27	23	26	244
Port Carbon Coal Co.,		26	24	8	21	26	24	26	24	25	23	22	22	271
East Lehigh Coal Co.,		26	6	--------	8	23	25	23	25	21	18	22	25	220
Gorman and Campion Coal Co.,		25	18	17	23	23	25	25	25	24	26	21	24	276
Bergen Coal Co.,		23	11	13	24	24	16	25	24	26	25	22	17	250

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 8	Stiney Sistog,	Austrian,	Miner,	43	M.	1	5	Buck Mountain	Schuylkill,	Rush of coal in chute.
11	Joseph Frank,	American,	Laborer,	17	S.			Silver Creek,		Run over by mine car—Outside.
18	Paul Seroki,	Austrian,	Miner,	25	S.			St. Clair,		Blast at face of breast. Returned too soon.
21	Harry Rogers,	American,	Motorman,	20	S.			Wadesville,		Caught by cars while coupling cars at bottom of plane. Outside.
Feb. 12	Anthony Christ,	Lithuanian,	Miner's laborer,	64	M.	1	1	Eagle Hill,		Struck by trip of cars on gangway.
21	Andrew Comage,	Lithuanian,	Battery starter,	49	M.	1		Silver Creek,		Rush of coal in chute.
June 6	Stiney Werock,	Lithuanian,	Miner,	32	S.			Buck Mountain		Premature blast at face of chute.
26	Joseph Petaconis,	Lithuanian,	Loader,	42	S.			Tamaqua,		Asphyxiated by gas in chute.
30	Andrew Strambo,	American,	Slatepicker,	16	S.			Buck Mountain		Caught between mine cars. Outside.
July 11	John Denosky,	Lithuanian,	Miner,	34	S.			Wadesville,		Fall of roof at face of breast.
29	Joseph Matto,	Slavonian,	Miner's laborer,	56	M.	1		Silver Creek,		Falling between trips of cars on gangway.
30	John Braw,	Polish,	Miner,	48	S.			Buck Mountain		Fall of roof at face of breast.
	Willard Mock,	American,	Loader,	23	S.			Tamaqua,		Ru h of wet coal in chute.
Aug. 6	Benjamin J. Meyers,	American,	Miner,	26	M.	1	3	Lucy R,		Blast at face of breast. Failed to get away in time.
27	Charles Yenolavage,	Lithuanian,	Miner,	41	S.			Middle Lehigh,		Fall of roof near face of pillar.
Sept. 4	Henry Derr,	American,	Miner,	61	M.	1	2	Tamaqua,		Explosion of gas at face of breast.
19	John Jones,	English,	Miner,	45	M.	1	2	Buck Mountain		Explosion of gas, in chute, ignited by open light.
Dec. 17	Patrick McFadden,	American,	Assistant mine foreman,	52	M.	1	3	Lucy R,		Caught between motor and mine car on gangway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 2	Fred Kline,	American,	Slatepicker,	14	S.	Reevesdale,	Schuylkill,	Caught in machinery. Outside.
7	Harry Evans,	American,	Laborer,	21	S.	Buck Mountain,		Struck by pipe. Outside.
10	James Dougherty,	American,	Carpenter,	51	M.	Buck Mountain,		Crushed between cars. Outside.
	Charles Shucavage,	Lithuanian,	Miner,	27	S.	Tamaqua,		Overcome by gas and fell down chute.
31	John McLaughlin,	American,	Spragger,	18	S.	Buck Mountain,		Caught between cars. Outside.
Feb. 4	Enock Kietonavage,	Lithuanian,	Miner,	52	S.	Eagle Hill,		Burned by explosion of gas.
5	Anthony Goletskie,	Lithuanian,	Miner,	27	S.	Silver Creek,		Burned by explosion of gas.
	George Molotavage,	Lithuanian,	Miner,	29	M.			
8	John Skeetz,	American,	Carpenter,	42	M.	Reevesdale,		Struck by falling timber. Outside.
20	Anthony Koslosky,	Lithuanian,	Miner,	40	M.	Wadesville,		Struck by lump of coal falling from face of breast.
25	John Gutter,	American,	Repairman,	50	M.	Wadesville,		Struck by wire rope.
March 4	Anthony Yocobonis,	Lithuanian,	Miner,	43	M.	Eagle Hill,		Burned by explosion of gas.
10	Jos. Lambert,	Lithuanian,	Miner,	37	M.	Eagle Hill,		Burned by explosion of gas.
11	Bryne Swiop,	Lithuanian,	Driver,	17	S.	Reevesdale,		Caught between stretcher and car when mule turned around.
21	Jos. Sagittus,	Lithuanian,	Loader,	18	S.	Wadesville,		Falling on gangway.
April 8	Mike Push,	Austrian,	Miner,	35	M.	Maryd,		Fall of top coal in breast.
9	Michael Zenas,	Lithuanian,	Poleman,	18	S.	Tamaqua,		Caught between car bumpers.
10	Martin Wilchefskey,	Polish,	Miner,	50	M.	Silver Creek,		Burned by explosion of gas.
23	Leo Balsis,	Lithuanian,	Miner,	27	M.	Wadesville,		Struck by falling collar.
May 6	Jos. Digine,	Lithuanian,	Miner,	26	M.	Wadesville,		Premature blast.
	Jos. Matalavage,	Lithuanian,	Miner,	45	S.	Wadesville,		Falling under mine cars.
7	Stiney Stasha,	Lithuanian,	Miner,	38	M.	Silver Creek,		Burned by explosion of gas.
	Joseph Adamcavage,	Lithuanian,	Miner,	43	S.			
June 7	Mike Pasic,	Polish,	Miner,	55	S.	Eagle Hill,		Burned by explosion of gas.
	Mike Double	Polish,	Miner,	46	M.			
9	Thomas A. Davies,	Welsh,	Inspector,	60	M.	Wadesville,		Squeezed between mine cars.
13	Anthony Wolf,	Lithuanian,	Miner,	42	M.	Maryd,		Burned by explosion of gas.
21	Charles Yourshaw,	Russian,	Miner,	36	M.	Wadesville,		Caught between mine cars.
26	Michael Connelly,	American,	Miner's laborer,	21	S.	Alliance,		Struck by piece of plank.
July 2	Mike Pojuban,	Slavonian,	Miner,	33	M.	St. Clair,		Fall of coal in breast.
3	Leo Weishue,	American,	Loader,	23	S.	Tamaqua,		Struck by piece of rock while loading car.
7	Andy Uravage,	Polish,	Miner,	28	S.	Eagle Hill,		Burned by explosion of gas.
9	Chas. Begonsky,	Russian,	Miner,	30	M.	Maryd,		Burned by explosion of gas.
13	Charles Tyler,	American,	Electrician,	28	M.	Maryd,		Burned by igniting gas of storage battery.

	16	Preston Wallace,	American,	Laborer,	21	M.	Eagle Hill,	Schuylkill,		Crushed in concrete mixer. Outside.
Aug.	1	Enock Kiltonavage,	Lithuanian,	Miner,	53	S.	Eagle Hill,			Fall of top coal.
	5	Frank G. Davenport,	American,	Loco. engineer,	64	M.	St. Clair,			Scalded when rail broke off water gauge on engine. Outside.
	14	Thomas Mulroy,	American,	Laborer,	17	S.	Silver Creek,			Burned by hot dust in boiler room. Outside.
	28	Mike Blickley,	American,	Car runner,	65	M.	Maryd,			Squeezed between car and timber.
Sept.	4	George Tarasavage,	Lithuanian,	Miner,	36	M.	Tamaqua,			Burned by explosion of gas.
	9	George Kowac,	Slavonian,	Miner's laborer,	26	S.	Wadesville,			Fall of coal at face of breast.
	12	Elmer Payne,	American,	Carpenter,	31	M.	Eagle Hill,			Struck by falling timber in breaker. Outside.
	19	Ed Evans,	American,	Bottomman,	37	S.	Eagle Hill,			Caught between rail and wheel of car.
	24	James Hurder,	American,	Dock boss,	58	M.	Tamaqua,			Caught between cars while coupling. Outside.
Oct.	20	William Haas,	German,	Miner,	48	M.	Buck Mountain,			Falling down chute.
Nov.	10	Frank Gowitsky,	Russian,	Miner,	44	S.	Maryd,			Burned by explosion of gas.
	23	Paul Dudick,	Slavonian,	Miner,	38	S.	St. Clair,			Struck by flying coal from blast.
	24	William Lishman,	American,	Miner,	65	M.	Tamaqua,			Struck by a piece of top rock.
	25	Peter Smith,	Austrian,	Miner,	41	M.	Maryd,			Burned by explosion of gas.
		John Unaschonick,	Lithuanian,	Miner,	37	M.	Eagle Hill,			Fall of rock at face of breast.
Dec.	17	Leon Pretty,	Tyrolean,	Miner,	43	M.	Eagle Hill,			Premature blast.
	18	Lew Dobranal ky,	Lithuanian,	Miner,	------	M.	Silver Creek,			Burned by explosion of gas.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Pottsville, Pa., May 6 and 7. The Board of Examiners was composed of E. G. Evans, Mine Inspector, James Tinley, Superintendent, William J. Brennan and Michael J. McGovern, Miners.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

John Pisko, Matthew Griffiths, New Philadelphia; William E. Reigle, Amos Shuey, St. Clair; Ralph C. Unger, Maryd; Michael J. Ryan, Thomas Dolan, William H. Fletcher, Mahanoy City; William Emanuel, Morea; Evan W. Owens, New Boston; David D. Humphries, Lansford.

ASSISTANT MINE FOREMEN

Michael Derr, Middleport; Norman Harrison, Wadesville; Patrick O'Neil, James Harkins, Silver Creek; George Yuhas, New Philadelphia; John Kadingo, St. Clair; John Burns, Tuscarora; Joseph Matsayko, Maryd; Walter Butts, Ira A. Lockwood, Joseph Zelonis, Charles Brown, Tamaqua; Anthony Anderlite, James McCauley, Mahanoy City; Charles E. Kissinger, Pottsville; John Marley, Morea; William G. Evans, Daniel Barrons, Coaldale.

1919

NINETEENTH DISTRICT

Schuylkill County

M. J. Brennan, Inspector, Pottsville

SUMMARY OF STATISTICS

Collieries in operation (breakers),	13
Washeries in operation,	5
Mines in district,	40
Gaseous mines in operation,	24
Non-gaseous mines in operation,	15
Tons of coal shipped to market,	1,952,007
Tons used at mines for steam and heat,	388,056
Tons sold to local trade and used by employes,	23,377
Tons produced (gross),	2,363,440
Persons employed inside,	3,143
Persons employed outside,	1,926
Persons employed inside between 16 and 21 years,	134
Persons employed outside between 14 and 21 years,	414
Fatal accidents inside,	12
Fatal accidents outside,	5
Serious non-fatal accidents inside,	77
Serious non-fatal accidents outside,	22
Tons produced per fatal accident inside,	196,953
Tons produced per fatal accident inside and outside,	139,026
Persons employed per fatal accident inside,	262
Persons employed per fatal accident outside,	385
Persons employed per fatal accident inside and outside,	298
Persons employed per non-fatal accident inside,	41
Persons employed per non-fatal accident outside,	88
Persons employed per non-fatal accident inside and outside,	51
Wives made widows,	12
Children made orphans,	34
Steam locomotives inside,	1
Steam locomotives outside,	22

Compressed air locomotives inside,	2
Compressed air locomotives outside,	21
Electric motors inside,	9
Tubular boilers,	128
Steam engines of all classes,	278
Electric dynamos,	28
Pumps of all classes,	147
Pumps delivering water to surface,	34
Air compressors,	19
Fans in use,	33
New mines opened,	4
Old mines abandoned,	1

TABLE A

Production of Coal

Operators	Gross tons
Philadelphia and Reading Coal and Iron Company,	1,082,453
Lytle Coal Company,	376,243
Pine Hill Coal Company,	253,857
Buck Run Coal Company,	215,372
Darkwater Coal Company,	186,550
Oak Hill Coal Company,	173,822
White and Company,	48,010
Black Heath Company,	8,828
Butcher Creek Coal Company,	7,310
Cullen Fuel Company,	7,044
C. N. Blanchard,	2,879
Sherman Coal Corporation,	1,072
Total,	2,363,440

Production by Counties

Schuylkill,	2,363,440

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	5	3	8	33	17	50	216,491	32,862	1,346	867	2,213	269	289	41	51
Lytle Coal Co.,	3	------	3	11	2	13	125,414	34,204	434	256	690	145	------	39	128
Pine Hill Coal Co.,	2	1	3	11	1	12	126,929	23,078	425	210	635	213	210	38	210
Buck Run Coal Co.,	2	1	3	15	1	16	107,686	14,358	342	137	479	171	137	23	137
Dark Water Coal Co.,	------	------	------	5	------	5	------	37,310	241	177	418	------	------	48	------
Oak Hill Coal Co.,	------	------	------	1	1	2	------	173,822	218	110	328	------	------	218	110
Buttonwood Creek Coal Co.,	------	------	------	1	------	1	------	7,310	12	7	19	------	------	12	------
Other Operators—no accidents,	------	------	------	------	------	------	------	------	125	162	287	------	------	------	------
Totals and averages,	12	5	17	77	22	99	196,953	30,604	3,143	1,926	5,069	262	385	41	88

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Otto,	Schuylkill,	E. E. Kaercher,	Pottsville,	E. J. Weimer, Division Supt. Charles Gallagher, Inside District Supt. John Paul, Outside District Supt.	Pottsville,	P. & R.
Phœnix Park,						
John Veith,						
Glendower,						
Pine Knot,						
Thomaston,						
Anchor Washery,						
Lytle Coal Co.						
Lytle,	Schuylkill,	R. A. Quin, Mgr.,	Wilkes-Barre,	W. W. Williams,	Minersville,	Pennsylvania; P. & R.
Lytle Washery,						
Pine Hill Coal Co.						
Pine Hill,	Schuylkill,	C. H. Strange,	Minersville,	C. H. Strange,	Minersville,	Pennsylvania
Brock Washery,						
Buck Run Coal Co.						
Buck Run,	Schuylkill,	James B. Neale,	Minersville,	George Conway,	Minersville,	P. & R.
Darkwater Coal Co.						
New Castle,	Schuylkill,	James B. Neale,	Minersville,	B. H. Hay,	Minersville,	Pennsylvania; P. & R
Ellsworth,						
Oak Hill Coal Co.						
Oak Hill,	Schuylkill,	William H. Grady,	Minersville,	William H. Grady,	Minersville,	P. & R.
White and Co.						
Howard,	Schuylkill,	Robert White,	Wade,	Robert White,	Pottsville,	P. & R.
Black Heath Co.						
Black Heath,	Schuylkill,	James G. Scott,	Minersville,			None
Butcher Creek Coal Co.						
Laurel Run,	Schuylkill,	L. J. Whims,	St. Clair,			P. & R.
Cullen Fuel Co.						
Cullen Washery,	Schuylkill,	P. W. Coffield,	New York,	Thomas Delahanty,	Minersville,	P. & R.
C. N. Blanchard						
Silverton Washery,	Schuylkill,	B. L. Gabriel,	Binghamton, N. Y.	E. J. Rose,	Pottsville,	P. & R.
Sherman Coal Corporation						
Sherman,	Schuylkill,	Thomas J. Hawkins,	Port Carbon,			P. & R.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Otto,	Schuylkill,	179,163	68,443	1,753	249,359	279	596	1	8	----------	51,825	40,987
Phoenix Park,	Schuylkill,	221,931	52,367	1,978	276,276	276	504	--------	15	----------	7,714	94,398
John Veith,**	Schuylkill,	18,743	----------	----------	18,743	111**	72	--------	1	----------	370	3,500
Glendower,	Schuylkill,	169,575	20,391	----------	189,966	280	347	4	6	----------	74,046	52,127
Pine Knot,	Schuylkill,	262,236	47,415	7,810	317,461	280	479	2	16	----------	98,593	94,355
Thomaston,*	Schuylkill,	----------	18,274	----------	18,274	280*	133	1	3	----------	----------	----------
		842,648	209,890	11,541	1,061,079	--------	2,131	8	49	----------	232,548	285,367
Washeries												
Anchor	Schuylkill,	17,303	4,071	----------	21,374	64	82	--------	1	----------	805	100
Totals,		859,951	210,961	11,541	1,082,453	--------	2,213	8	50	----------	233,353	285,467
Lytle Coal Co.												
Lytle,	Schuylkill,	254,475	50,813	6,202	311,490	283	656	3	13	----------	60,532	103,463
Lytle Washery,	Schuylkill,	61,973	2,780	----------	64,753	220	34	--------	--------	----------	----------	----------
Totals,		316,448	53,593	6,202	376,243	--------	690	3	13	----------	60,532	103,463
Pine Hill Coal Co.												
Pine Hill,	Schuylkill,	207,806	43,800	1,409	253,015	261	607	3	12	----------	25,350	69,925
Brock Washery,	Schuylkill,	842	----------	----------	842	21	28	--------	--------	----------	----------	----------
Totals,		208,648	43,800	1,409	253,857	--------	635	3	12	----------	25,350	69,925
Buck Run Coal Co.												
Buck Run,	Schuylkill,	181,047	32,800	1,525	215,372	272	479	3	16	----------	65,047	69,816
Darkwater Coal Co.												
New Castle,	Schuylkill,	139,471	20,000	1,198	160,669	275	326	--------	3	----------	48,107	1,575
Ellsworth,***	Schuylkill,	18,681	7,200	----------	25,881	252	92	--------	2	----------	10,000	----------
Totals,		158,152	27,200	1,198	186,550	--------	418	--------	5	----------	58,107	1,575
Oak Hill Coal Co.												
Oak Hill,	Schuylkill,	162,947	9,600	1,275	173,822	237	328	--------	2	----------	65,775	13,350

*Coal prepared at Pine Knot breaker. **Coal prepared at Otto breaker.
***Formerly operated by Ellsworth Coal Mining Co.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used —Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
White and Co.												
Howard,	Schuylkill,	39,939	8,000	71	48,010	254	137				2,000	1,000
Black Heath Co.												
Black Heath,	Schuylkill,	8,400	288	140	8,828	288	22					7,500
Butcher Creek Coal Co.												
Laurel Run,	Schuylkill,	5,804	1,500	6	7,310	200	19		1			1,500
Cullen Fuel Co.												
Cullen Washery,	Schuylkill,	6,734	310		7,044	62	47					
C. N. Blanchard												
Silverton Washery,	Schuylkill,	2,879			2,879	57	29					
Sherman Coal Corporation.												
Sherman,	Schuylkill,	1,058	4	10	1,072	23	52			75	275	500
Grand totals,		1,952,007	388,056	23,377	2,363,440		5,069	17	99	75	510,439	554,096

TABLE 2.—PART 2.—Number and kinds of boilers, e ngines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all clas.es)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute.
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	----	--------	54	10,240	170	22,178	----	--------	9	1,234	82	55,507	14	8,887	226	----	15	2	11	8	9,198
Lytle Coal Co.,		----	--------	29	4,200	22	7,387	----	--------	3	400	6	6,500	1	3,000	51	----	1	----	4	3	X
Pine Hill Coal Co.,		----	--------	4	3,000	26	2,575	----	--------	2	395	16	8,804	3	7,000	33	----	----	----	7	2	550
Buck Run Coal Co.,		----	--------	9	1,800	10	750	----	--------	2	310	17	10,000	5	800	20	----	1	----	6	2	1,100
Darkwater Coal Co.,		----	--------	14	2,400	24	1,045	----	--------	3	950	7	8,000	6	3,350	20	----	1	----	2	2	140
Oak Hill Coal Co.		----	--------	5	2,500	10	975	----	--------	----	--------	4	4,000	1	1,000	42	----	4	----	----	2	500
White and Co.,		----	--------	5	700	8	325	----	--------	----	--------	7	3,500	3	800	8	----	----	----	----	----	--------
Black Heath Co.,		----	--------	1	120	2	80	----	--------	----	--------	----	--------	----	--------	3	----	----	----	----	----	--------
Butcher Creek Coal Co.,		----	--------	3	280	4	140	----	--------	----	--------	3	1,100	1	500	3	----	1	----	----	----	--------
Cullen Fuel Co.,		----	--------	3	220	2	25	----	--------	6	250	3	1,400	----	--------	1	----	----	----	----	----	--------
C. N. Blanchard,		----	--------	1	50	----	--------	----	--------	3	400	2	2,000	----	--------	----	----	----	----	----	----	--------
Sherman Coal Corporation,		----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	3	----	----	----	----	----	--------
Totals,		----	--------	128	25,510	278	35,480	----	--------	28	3,939	147	100,811	34	25,337	410	----	23	2	30	19	11,488

X Data not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	7	38	------	631	55	------	------	5	------	96	18	52	57	18	------	2	367	1,340
Lytle Coal Co.,		1	3	9	210	29	------	------	4	------	29	2	------	27	9	2	1	108	434
Pine Hill Coal Co.,		1	2	6	152	138	------	------	6	6	36	6	9	38	3	3	1	18	425
Buck Run Coal Co.,		1	1	7	152	40	------	------	7	7	12	5	------	7	5	2	2	94	342
Darkwater Coal Co.,		2	------	4	85	26	------	------	2	2	15	7	------	6	5	------	3	84	241
Oak Hill Coal Co.,		1	2	7	131	22	------	------	------	------	14	3	6	11	4	2	2	13	218
White and Co.,		1	------	2	51	18	------	------	------	------	4	2	------	8	2	------	------	3	91
Black Heath Co.,		------	------	------	5	3	------	------	------	------	2	------	------	------	------	------	------	------	10
Butcher Creek Coal Co.,		1	------	------	3	5	------	------	------	------	2	------	------	------	1	------	------	------	12
Cullen Fuel Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
C. N. Blanchard,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Sherman Coal Corporation,		1	------	1	13	8	------	------	------	------	1	------	------	------	------	------	------	------	24
Totals,		16	46	36	1,433	344	------	------	24	15	211	43	67	154	47	9	11	687	3,143

TABLE 3.—PART 1.—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	--------	5	14	41	138	3	15	33	47	14	557	867	2,213
Lytle Coal Co.,		1	2	2	14	46	4	--------	13	15	12	147	256	690
Pine Hill Coal Co.,		2	2	5	16	29	10	3	41	8	8	92	210	635
Buck Run Coal Co.,		1	1	1	3	17	1	--------	5	--------	13	95	137	479
Darkwater Coal Co.,		2	2	2	9	20	3	1	24	--------	2	111	177	418
Oak Hill Coal Co.,		1	1	2	8	14	4	2	3	4	8	63	110	328
White and Co.,		1	1	1	3	12	--------	--------	11	--------	2	15	46	137
Black Heath Co.,		1	--------	--------	--------	1	--------	--------	--------	2	--------	8	12	22
Butcher Creek Coal Co.,		1	1	1	--------	2	--------	--------	1	--------	--------	1	7	19
Cullen Fuel Co.,		1	1	1	2	3	1	--------	3	--------	1	34	47	47
C. N. Blanchard,		1	--------	--------	--------	--------	--------	--------	--------	--------	--------	28	29	29
Sherman Coal Corporation,		--------	1	--------	2	--------	--------	--------	4	--------	1	20	28	52
Totals,	--------	12	17	29	92	282	26	21	138	76	62	1,171	1,926	5,069

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	21	15	12	19	21	21	21	23	25	26	22	25	251
Lytle Coal Co.,		26	14	22	24	25	25	25	25	24	26	23	24	283
Pine Hill Coal Co.,		25	13	11	20	25	25	24	24	21	26	23	24	261
Buck Run Coal Co.,		24	13	19	22	25	24	26	25	24	26	22	22	272
Darkwater Coal Co.,		13	13	17	23	25	24	26	25	24	25	23	26	264
Oak Hill Coal Co.,		25	-------	16	18	21	21	21	23	22	25	23	22	237
White and Co.,		24	22	24	14	13	23	20	22	25	23	20	24	254
Black Heath Co.,		25	23	25	24	24	24	24	24	24	24	24	23	288
Butcher Creek Coal Co.,		25	24	13	17	22	25	22	22	21	22	25	22	260
Sherman Coal Corporation,		-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	5	18	23

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 9	Joseph Butravage,	Lithuanian,	Miner,	38	M.	1	4	Pine Hill,	Schuylkill,	Squeezed between cars on turnout at bottom of slope.
Feb. 4	George Metsavage,	Lithuanian,	Miner,	39	M.	1	1	Pine Hill,		Fall of slate at face of breast.
5	John Lewis,	American,	Engineer,	35	M.	1	3	Pine Hill,		Burned when clothes caught fire from electric heater in engine room. Outside.
22	Thomas Foyle,	American,	Laborer,	37	S.			Buck Run,		Caught in conveyor line near breaker. Outside.
April 8	Thomas Campion,	American,	Fire boss,	48	M.	1	5	Thomaston,		Rush of coal in battery.
17	Stiney Stapnick,	Polish,	Miner,	36	M.	1	1	Lytle,		Derailed cars on slope, while traveling up slope.
June 2	Michael Horogonish,	Austrian,	Laborer,	45	W.		1	Pine Knot,		Cars at top of breaker while standing on track. Outside.
10	Arthur Kinsinger,	American,	Miner,	33	M.	1	2	Lytle,		Fall of slate at face of breast.
11	Steve Kerick,	Austrian,	Miner,	36	M.	1	5	Otto,		Fall of slate at face of breast.
27	John Shochless,	Lithuanian,	Miner,	48	M.	1		Buck Run,		Electricity on gangway. While making room for set of timber came in contact with electric wire.
July 9	Patrick Haley,	American,	Switchman.	23	S.			Glendower,		Run over by cars—riding on cars. Outside.
31	James Leonard,	American,	Starter,	54	S.			Glendower,		Rush of air in breast after firing blast to start coal.
	John Polvinskey,	Lithuanian,	Miner,	50	S.					
Aug. 30	John Karpinski,	Lithuanian,	Miner,	36	M.	1	3	Pine Knot,		Premature blast at face of breast—tamping.
Oct. 12	John Maley,	American,	Stable boss,	60	M.	1		Glendower,		Squeezed by mule in stable. Outside.
25	John Yoskoka,	Polish,	Miner,	46	M.	1	5	Lytle,		Fall of slate at face of breast.
Nov. 22	Charles Mazure,	Austrian,	Miner's laborer,	38	M.	1	4	Buck Run,		Fall of slate at face of gangway while loading car.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 7	Frank Reilly,	American,	Slatepicker,	14	S	Otto,	Schuylkill,	Falling into scraper line. Outside.
13	Anthony Mordus,	Lithuanian,	Miner,	35	M	Gordower,		Fall of slate at face of breast.
18	Nelson Kessler,	American,	Repairman,	29	M	Phoenix Park,		Burned by explosion of gas.
	William Stepalonis,	Lithuanian,	Miner,	55	M	Buck Run,		Knocked down manway by rush of coal.
20	George Onifrey,	Lithuanian,	Miner,	49	M	Buck Run,		Fall of coal at face of breast.
22	John Burke,	Lithuanian,	Miner,	42	S	Gordower,		Falling on lump of coal in breast.
27	Francis Ford,	American,	Laborer,	19	S	Thomaston,		Caught in coupling of mine car. Outside.
28	Andrew Calora,	Polish,	Laborer,	48	M	Pine Hill,		Caught under car on gangway when mule ran away.
29	Anthony Miller,	Russian,	Miner,	48	M	Buck Run,		Falling down slope. He was working on slope and while pulling rail it broke.
31	William Braskell,	Lithuanian,	Miner,	55	M	Pine Knot,		Caught by timber while unloading car on gangway.
Feb. 1	Michael Smingo,	American,	Driver,	25	M	Phoenix Park,		Caught by car while removing sprag.
13	Raymond Conville,	American,	Switchman,	19	S	Pine Knot,		Caught by mine car while running to throw switch. Outside.
	Dennis Mahoney,	American,	Laborer,	58	S	Anchor Washery,		Struck by bucket of steam shovel. Outside.
25	John Carmen,	American,	Miner,	21	M	Phoenix Park,		Burned by explosion of gas. Struck match to light cigarette.
	Charles Onescavage,	Slavonian,	Miner,	27	M			
28	Steve Pokarick,	Slavonian,	Laborer,	19	S	Otto,		Falling in breaker. Outside.
March 7	Frank Laychock,	Austrian,	Miner,	36	M	Buck Run,		Caught between bumpers of cars on gangway.
12	Alex Chenantie,	Polish,	Miner,	34	M	Buck Run,		Burned by explosion of gas at face of breast. Buddy lighted match.
	Joseph Kerlaskie,	Polish,	Miner,	39	M	Lytle,		Fall of top coal at face of breast.
14	Charles Auman,	American,	Miner,	35	M	Laurel Run,		Rush of coal in chute.
19	Henry Rusway,	Russian,	Miner,	30	M	Buck Run,		Fall of coal at face of breast while drilling hole.
22	Anthony Siteus,	Lithuanian,	Miner,	36	M	Lytle,		Caught between bumpers of cars on gangway—uncoupling.
25	Anthony Poperitus,	Lithuanian,	Miner,	46	M	Pine Hill,		Fall of top slate at face of breast.
28	William Thomas,	American,	Laborer,	24	M	Otto,		Struck by timber hook. Outside.
31	William Freeman,	Italian,	Miner,	24	S	Phoenix Park,		Fall of rock at face of breast.
	Michael Chuck,	Polish,	Laborer,	55	M	Lytle,		Caught between bumpers of cars on tipple. Outside.
April 3	Curtis Mattern,	American,	Driver,	19	S	Ellsworth,		Squeezed between cars at bottom of slope.

	5	Wash Ritzko,	Austrian,	Miner,	28	M	Otto,		Struck by flying nail—driving nail in plank.
	7	John Nonorones,	Lithuanian,	Miner,	34	S	Buck Run,		Burned by explosion of gas at face of breast. Lamp found unlocked.
		Charles Dieskinus,	Lithuanian,	Miner,	36	M			
	8	Joseph Bartiskie,	Lithuanian,	Miner,	53	S	Otto,		Fall of coal at pillar work.
	12	John Tosko,	Hungarian,	Ashman,	40	S	Glendower,		Falling off mule. Outside.
	14	William Callaghan,	American,	Miner,	26	M	Thomaston,		Caught under wheel of car on gangway.
	16	Frank Rogoskus,	Lithuanian,	Miner,	34	M	Buck Run,		Fall of roof at face of breast.
	26	Lawrence Soboleskie,	Lithuanian,	Miner,	49	M	Phoenix Park,		Burned by explosion of gas at face of breast. Opened safety lamp.
	29	Joseph Olander,	Russian,	Miner,	40	M	Thomaston,		Caught between bumpers of cars on gangway.
May	5	Paul Pojajenis,	Lithuanian,	Miner,	35	M	Buck Run,		Burned by gas ignited while lighting fuse to fire blast at face of breast.
		Fred Pasqua,	Italian,	Laborer,	19	S	Pine Hill,		Hand lacerated by hammer handle—infection. Outside.
	6	Patrick Fogarty,	American,	Repairman,	55	M	Pine Knot,		Falling on gangway.
	10	Tony Gidonick,	Slavonian,	Miner,	35	M	Pine Hill,		Struck by piece of coal while loading car from chute.
	13	John Burke,	Lithuanian,	Miner,	45	M	Glendower,		Falling down manway.
	20	Joseph Paulbinsky,	Lithuanian,	Miner,	25	S	Lytle,		Fall of top slate while carrying plank into pillar chute.
	26	William O'Neill,	American,	Miner,	55	M	Pine Knot,		Fall of top coal at face of gangway.
June	9	Henry Leininger,	American,	Driver,	21	S	Otto,		Struck by lash of whip.
		Henry Scott,	American,	Starter,	37	M	Pine Knot,		Struck by piece of coal at battery.
	16	Mox Torick,	Austrian,	Laborer,	35	M	Otto,		Struck by rolling timber—cutting timber. Outside.
	18	William Coady,	American,	Miner,	25	S	Phoenix Park,	Schuylkill,	Fall of top slate at face of breast.
	20	Steve Kowalscheck,	Russian,	Miner,	48	M	Buck Run,		Fall of top slate in heading.
	26	Joseph Goodlonis,	Lithuanian,	Miner,	36	M	Buck Run,		Burned by explosion of gas at face of breast when he lighted fuse with match.
	27	William Grego,	Russian,	Miner,	41	M	Pine Knot,		Fall of coal at face of breast.
	28	Andrew Naskevitch,	Lithuanian,	Miner,	34	M	Glendower,		Caught between cars at bottom of slope.
	30	William Brown,	American,	Miner,	26	M	Lytle,		Premature blast at face of breast.
July	15	Joseph Grusdis,	Lithuanian,	Miner,	35	M	Pine Hill,		Electricity. Shocked when tools came in contact with trolley wire, on gangway, and fell from car.
	22	Howard Kendrick,	American,	Miner,	43	M	Pine Knot,		Struck by timber while lifting it.
		Herman Gan'ey,	Italian,	Miner,	41	M	Newcastle,		Fall of coal at face of chute while trimming shot.
	26	James Schrupski,	Lithuanian,	Miner,	33	S	Pine Hill,		Burned by explosion of gas at face of breast ignited by cigarette.
Aug.	6	Anthony Kovalski,	Lithuanian,	Miner,	65	M	Phoenix Park,		Burned by explosion of gas in chute ignited by blast.
		Lester Weigand,	American,	Driver,	30	M	Buck Run,		Kicked by mule in barn. Outside.
	7	Ralph Caseno,	Italian,	Miner,	40	M	Phoenix Park,		Fall of top slate at face of breast.
	8	Joseph Lutchka,	Lithuanian,	Miner,	35	S	Glendower,		Burned by gas while trying to light safety lamp.
	13	Matt Clerkus,	Austrian,	Laborer,	42	M	Phoenix Park,		Caught by car while dumping it on rock bank. Outside.

TABLE 5.—Continued

Aug.	16	Thomas Rountree,	American,	Miner,	32	M	Otto,			Caught by rush of coal and knocked down chute.
	18	Anthony Awarski,	American,	Slatepicker,	16	S	Lytle,			Caught in slush bank engine. Outside.
	21	James Calderone,	Italian,	Laborer,	24	S	Phoenix Park,			Squeezed by mule against prop on gangway.
	28	Joseph Minasavage,	Lithuanian,	Miner,	40	S	Lytle,			Burned by explosion of gas at face of breast.
	29	Walter Wychoski,	American,	Electrician,	20	S	Pine Knot,			Fall of top coal on gangway.
Sept.	2	William Faust,	American,	Carpenter,	67	M	Phoenix Park,			Struck by block and tackle while pulling rope. Outside.
	8	John Zemokitz,	Lithuanian,	Miner,	42	M	Lytle,			Struck by piece of coal while starting chute.
	12	Anthony Reppis,	American,	Oiler,	19	S	Phoenix Park,			Caught between wheel and rope while oiling machinery in breaker. Outside.
		Andrew Telick,	Polish,	Miner,	30	M	Pine Hill,			Fall of top coal while starting battery.
	18	John Boran,	American,	Car runner,	19	S	Pine Knot,			Bumped between cars—uncoupling. Outside.
	27	Charles Zemer,	Italian,	Driver,	26	M	Ellsworth,			Squeezed between car and timber on gangway.
Oct.	6	Anthony Konegal,	Italian,	Miner,	37	S	Pine Hill,	Schuylkill,		Fall of coal while walking down manway.
	9	Joseph Meally,	American,	Jig runner,	18	S	Pine Hill,			Caught in sprocket wheel of jig. Outside.
	10	Paul Muscavage,	Slavonian,	Laborer,	63	M	Pine Knot,			Struck by bucket of steam shovel. Outside.
		George Popovich,	Slavonian,	Miner,	43	M	Pine Knot,			Struck by falling prop in breast.
		Raymond Nevilles,	American,	Laborer,	23	S	Phoenix Park,			Falling while getting off moving car. Outside.
	11	Joseph Lipsett,	American,	Laborer,	20	M	Pine Knot,			Caught under wheel of mine car. Outside.
	13	William Strausser,	American,	Trackman,	54	M	Pine Hill,			While lifting rail on gangway it fell on foot.
	14	John Macilo,	Slavonian,	Laborer,	32	M	Pine Knot,			Struck by driving rod of locomotive while putting sand on rail. Outside.
	27	August Vellor,	Lithuanian,	Miner,	62	M	Buck Run,			Burned by explosion of gas at face of breast. Struck match to light pipe.
		Joseph Marchitas,	Lithuanian,	Miner,	58	M				
Nov.	3	George Fanning,	American,	Laborer,	22	M	Lytle,			Lifting rail on gangway.
	5	George Wanrick,	American,	Miner,	68	M	Buck Run,			Struck by piece of slate while standing prop in breast.
	7	Anthony Shocklus,	Lithuanian,	Miner,	30	M	Lytle,			Rush of water at face of breast.
	8	Alex Buchanan,	American,	Miner,	61	M	Pine Hill,			Struck by piece of coal from pick in breast.
	13	John Harcovy,	Polish,	Miner,	43	M	Lytle,			Fall of top coal while pulling down piece of coal in breast.
	14	Nicholas Dennick,	Italian,	Laborer,	42	M	Pine Hill,			Squeezed between car and side of slope.
	19	Robert Motley,	American,	Miner,	42	S	Newcastle,			Struck by piece of slate while placing dynamite between pieces of rock in breast.

	26	Stefan Polaskie,	Polish,	Miner,	38	M	John Veith,		Fall of coal from side while dressing shot at face of breast.
	28	William Ball,	American,	Miner,	58	M	Newcastle,		Rush of coal at battery.
Dec.	4	Edward Purcell,	American,	Switchman,	18	S	Pine Knot,		Caught between bumper of car and locomotive. Outside.
		Adam Solt,	American,	Miner,	44	M	Lytle,		Fall of coal at face of breast.
	15	Matt Nimovizl,	Polish,	Miner,	54	M	Phoenix Park,	Schuylkill,	Fall of top coal in breast.
	17	Michael Sweda,	Slavonian,	Miner,	29	S	Oak Hill,		Burned by explosion of gas ignited while lighting blast at face of breast.
	18	Anthony Marishis,	Lithuanian,	Miner,	28	S	Pine Knot,		Burned by explosion of gas—firing blast at face of breast.
		Charles Feranski,	Lithuanian,	Miner,	26	S			
	23	Daniel Davis,	American,	Carpenter,	27	S	Oak Hill,		Falling from ladder. Outside.
	24	Henry Poleman,	German,	Miner,	40	M	Lytle,		Fall of coal at face of breast.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Pottsville, April 23 and 24. The Board of Examiners was composed of Michael J. Brennan, Inspector, Pottsville; Timothy Brennan, Miner, Heckscherville; William E. Weir, Miner, Branchdale.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

George Tropp, Phillip Russell, Minersville; Frederick Ossman, Zerbe.

ASSISTANT MINE FOREMEN

John Griffiths, William Withelder, Zerbe; Patrick Quinn, George Williams, Thomas Rountree, Branchdale; John Lord, Mount Pleasant; Joseph Knight, Saint Clair; John D. Evans, Pottsville; William H. Horan, John Edward Orf, Pottsville, R. F. D. No. 2.

1919

TWENTIETH DISTRICT

Schuylkill County

P. C. Fenton, Inspector, Mahanoy City

SUMMARY OF STATISTICS

Collieries in operation (breakers),	7
Washeries in operation,	3
Mines in district,	18
Gaseous mines in operation,	17
Non-gaseous mines in operation,	1
Tons of coal shipped to market,	2,469,019
Tons used at mines for steam and heat,	462,929
Tons sold to local trade and used by employes,	39,287
Tons produced (gross),	2,971,235
Persons employed inside,	4,001
Persons employed outside,	2,049
Persons employed inside between 16 and 21 years,	358
Persons employed outside between 14 and 21 years,	651
Fatal accidents inside,	24
Fatal accidents outside,	3
Serious non-fatal accidents inside,	34
Serious non-fatal accidents outside,	8
Tons produced per fatal accident inside,	123,801
Tons produced per fatal accident inside and outside,	110,046
Persons employed per fatal accident inside,	167
Persons employed per fatal accident outside,	683
Persons employed per fatal accident inside and outside,	224
Persons employed per non-fatal accident inside,	118
Persons employed per non-fatal accident outside,	256
Persons employed per non-fatal accident inside and outside,	144
Wives made widows,	18
Children made orphans,	52
Steam locomotives outside,	21
Compressed air locomotives inside,	15
Electric motors inside,	21
Electric motors outside,	2
Tubular boilers,	157
Steam engines of all classes,	349

Internal combustion engines (gas),	1
Electric dynamos,	14
Pumps of all classes,	177
Pumps delivering water to surface,	36
Air compressors,	20
Fans in use,	23
New mines opened,	4

TABLE A

Production of Coal

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company,	2,448,327
Lehigh Valley Coal Company,	522,908
Total,	2,971,235

Production by Counties

Schuylkill,	2,971,235

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	22	1	23	33	8	41	111,287	74,192	3,475	1,747	5,222	158	1,747	105	218
Lehigh Valley Coal Co.,	2	2	4	1	------	1	261,454	522,908	526	302	828	263	151	526	----------
Totals and averages,	24	3	27	31	8	42	123,801	87,380	4,001	2,049	6,050	167	683	118	256

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Ellangowan,	Schuylkill,	E. E. Kaercher,	Pottsville,	George Mayer, Division Supt.,	Mahanoy City,	P. & R.
Knickerbocker,						
Saint Nicholas,						
Suffolk,						
Maple Hill,						
Tunnel Ridge,				T. B. VanBuren, Division Supt.,	Mahanoy City,	
Mahanoy City,						
North Mahanoy,						
Kickerbocker Washery,				A. F. Rissinger,	Saint Nicholas,	
North Mahanoy Washery,				F. B. Dawson,	Mahanoy City,	
Lehigh Valley Coal Co.						
Park,	Schuylkill,	Thos. P. Thomas,	Wilkes-Barre,	John W. Price,	Park Place,	Lehigh Valley
Springdale Washery,						

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (Gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Ellangowan,	Schuylkill,	314,020	41,181	1,069	356,270	276	790	3	2	5,125	121,532	----------
Saint Nicholas,	Schuylkill,	159,135	43,242	207	202,584	279	418	----------	2	----------	55,259	650
*Suffolk,	Schuylkill,	169,202	32,775	1,529	203,506	*277	728	2	7	2,425	109,341	----------
Maple Hill,	Schuylkill,	425,158	69,022	----------	494,180	277	939	9	18	5,125	62,992	126,930
Tunnel Ridge,	Schuylkill,	234,884	60,405	----------	295,289	282	682	7	5	----------	171,830	1,825
Mahanoy City,	Schuylkill,	292,696	39,812	33,068	365,576	284	645	----------	2	50	132,299	7
North Mahanoy,	Schuylkill,	263,482	60,572	312	324,366	278	686	2	5	8,000	120,517	----------
†Knickerbocker,	Schuylkill,	144,475	31,740	----------	176,215	†276	268	----------	----------	----------	52,919	26,706
		2,003,052	378,749	36,185	2,417,986	----------	5,156	23	41	20,725	826,689	156,082
Washeries.												
Knickerbocker,	Schuylkill,	10,153	----------	----------	10,153	56	50	----------	----------	----------	50	12
North Mahanoy,	Schuylkill,	20,188	----------	----------	20,188	68	16	----------	----------	----------	----------	----------
		30,341	----------	----------	30,341	----------	66	----------	----------	----------	50	12
Totals,		2,033,393	378,749	36,185	2,448,327	----------	5,222	23	41	20,725	826,739	156,094
Lehigh Valley Coal Co.												
Park Colliery,	Schuylkill,	422,649	83,805	3,102	509,556	275	774	4	1	3,250	100,488	122,178
Springdale Washery,	Schuylkill,	12,977	375	----------	13,352	25	54	----------	----------	----------	1,600	----------
Totals,		435,626	84,180	3,102	522,908	----------	828	4	1	3,250	102,088	122,178
Grand totals,		2,469,019	462,929	39,287	2,971,235	----------	6,050	27	42	23,975	928,827	278,2 2

†Coal prepared at Ellangowan breaker.
*Coal prepared at Saint Nicholas breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading, Coal and Iron Co.,	Schuylkill,	----	--------	136	17,050	289	39,936	----	--------	13	2,426	123	110,637	22	12,328	460	----	17	15	18	18	10,889
Lehigh Valley Coal Co.,	Schuylkill,	----	--------	21	4,775	60	11,100	1	50	1	200	54	23,400	14	11,000	103	----	4	----	5	2	838
Totals,		----	--------	157	21,825	349	51,036	1	50	14	2,626	177	134,037	36	23,328	563	----	21	15	23	20	11,727

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	9	88		1,398	470			3		160	54	164	142	22		34	931	3,475
Lehigh Valley Coal Co.,	Schuylkill,	3	22		274	75			9		30	11	7	13	12	4	4	62	526
Totals,		12	110		1,672	545			12		190	65	171	155	34	4	38	993	4,001

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,		9	25	47	195	8	3	168	157	37	1,098	1,747	5,222
Lehigh Valley Coal Co.,			4	4	32	65	5	4	13		4	171	302	828
Totals,			13	29	79	260	13	7	181	157	41	1,269	2,049	6,050

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	26	18	15	22	25	24	26	25	25	26	23	24	279
Lehigh Valley Coal Co.,	Schuylkill,	26	18	15	22	24	24	26	24	25	26	22	23	275

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 4	Anthony Terestes,	Austrian,	Miner,	38	M.	1	5	North Mahanoy		Fall of coal at face of pillar.
13	Peter Redinsky,	Lithuanian,	Miner,	38	M.	1	2	Tunnel Ridge,		Smothered by gas at face of breast.
Mar. 2	Paul Smith,	Lithuanian,	Spragger,	33	S.			Park,		Falling under cars. Outside.
29	Joseph Cassion,	Polish,	Miner,	35	M.	1	2	Maple Hill,		Fall of rock on main gangway.
April 8	Norman Parritt,	American,	Starter,	26	M.	1	1	Tunnel Ridge,		Premature blast at battery.
May 5	Edward Elinski,	Polish,	Loader,	54	M.	1	1	Maple Hill,		Fall of cage to bottom of shaft. Ten men were lowered in shaft when the engineer lost control of engine, causing cage to strike the bottom with great force.
	Joseph Bercufski,	Lithuanian,	Miner,	36	S.					
	Martin Cropeck,	Polish,	Miner,	51	M.	1	7			
21	Harry Berger,	American,	Miner,	37	M.	1	2	Tunnel Ridge,		Fall of roof at face of breast.
26	August Brezinski,	Lithuanian,	Miner,	43	M.	1	3	Ellangowan,		Fall of roof at face of breast.
	Anthony Pozefsky,	Lithuanian,	Miner,	45	S.			Maple Hill,		Fall of coal at face of breast.
June 16	Michael Rakus,	Lithuanian,	Miner,	47	M.	1	5	Maple Hill,		Falling timber in chute.
17	August Reginas,	Lithuanian,	Miner,	46	M.	1	5	Tunnel Ridge,	Schuylkill	Fall of coal in chute.
19	Dominick Susna,	Polish,	Miner,	40	S.			Suffolk,		Fall of roof in pillar work.
23	Jacob Bussell,	Lithuanian,	Miner,	42	M.	1	4	Ellangowan,		Fall of coal on gangway.
	Paul Paltish,	Salvonian,	Miner's laborer,	50	M.	1		Tunnel Ridge,		Fall of roof at face of pilar.
July 5	John Socko,	Austrian,	Laborer,	56	M.	1	2	Suffolk,		Mine cars. Outside.
21	Joseph Repcosky,	Polish,	Miner,	23	S			Maple Hill,		Burned by explosion of gas at face of breast.
	Joseph Gohofsky,	Polish,	Miner,	43	M	1	7			
Aug. 18	John Youkowsky,	Lithuanian,	Miner,	50	M	1	5	Maple Hill,		Premature blast at face of breast.
22	Joseph Kerkuski,	Lithuanian,	Miner,	38	M	1		Park,		Fall of rock in pillar work.
Sept. 22	Joseph Reckalitis,	Lithuanian,	Miner,	26	S			Park,		Fall of coal from side of gangway.
Oct. 8	Anthony Klick,	Polish,	Miner,	27	S			Ellangowan,		Fall of coal at face of pillar.
30	Paul Goodlavage,	Lithuanian,	Miner,	32	S			Tunnel Ridge,		Fall of coal at face of breast.
Dec. 3	George Snyder,	American,	Miner,	32	M	1	1	North Mahanoy		Fall of roof at face of pillar.
12	Paul Sonivitus,	Lithuanian,	Miner,	40	S			Tunnel Ridge,		Burned by explosion of gas at face of breast ignited by cigarette.
16	Anthony Darras,	Austrian,	Ashman,	44	M	1		Park,		Piece of frozen coal rolled on him in boiler house. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause and location of accident
Feb. 6	Anthony Kreepis,	Lithuanian,	Repairman,	55	M.	Maple Hill,		Fall of top coal at face of breast.
19	Charles Kraddes,	Lithuanian,	Miner,	27	M.	Park,		Fall of slate at face of pillar work.
March 4	Symon Coombes,	American,	Miner,	54	M.	Mahanoy City,		Fall of coal at face of gangway.
5	John Moeknotch,	American,	Laborer,	21	S.	Tunnel Ridge,		Cut by circular saw. Outside.
11	Frank Shaeffer,	American,	Car runner,	25	M.	Suffolk,		Mine cars. Outside.
18	Mike Amalavage,	Polish,	Miner's laborer,	35	S.	Suffolk,		Fall of coal at face of gangway.
April 10	Blodis Saluta,	Lithuanian,	Miner,	31	M.	Saint Nicholas,		Rush of coal at battery.
	Stiney Prefsky,	Lithuanian,	Miner,	55	M.	Maple Hill,		Fall of rock at face of breast.
15	Anthony Vereonis,	Polish,	Miner's laborer,	43	M.	Ellangowan,		Fall of rock at face of breast.
22	Stiney Novack,	Polish,	Miner,	40	M.	Maple Hill,		Fall of coal at face of gangway.
26	Rollie Pecutis,	Lithuanian,	Loader,	56	M.	Maple Hill,		Falling off mule in gangway.
29	William Faust,	American,	Jig runner,	16	S.	Mahanoy City,		Machinery in breaker. Outside.
30	John Hogen,	American,	Laborer,	21	S.	North Mahanoy,		Scalded in boiler house. Outside.
May 5	Charles Pangonis,	Lithuanian,	Miner's laborer,	40	S.			
	Michael Sincavage,	Polish,	Miner's laborer,	26	S.			
	John Chichavitch,	Polish,	Miner,	30	M.			Injured when cage fell and struck bottom of shaft with great force.
	Michael August,	Lithuanian,	Loader,	42	S.	Maple Hill,		
	Norman Gashusky,	Lithuanian,	Loader,	45	M.		Schuylkill,	
	Blody Gecontz,	Polish,	Miner,	24	S.			
9	George Pinkosh,	Polish,	Miner,	32	M.	Suffolk,		Premature blast at face of breast.
	Thomas Holland,	American,	Miner's laborer,	47	S.	North Mahanoy,		Caught between mine cars on gangway.
June 5	Paul Goodlavage,	Lithuanian,	Miner,	33	S.	Tunnel Ridge,		Falling down manway.
6	Walter Bararvick,	American,	Door boy,	16	S.	Maple Hill,		Derailed car—riding on car.
19	Walter Leskus,	American,	Miner,	24	M.	Suffolk,		Thumb cut off by axe while making wedge.
20	Stiney Krissanosky,	Lithuanian,	Miner,	38	S.	Maple Hill,		Burned by explosion of gas at face of breast.
July 7	John Kovolis,	Lithuanian,	Miner,	36	M.	Maple Hill,		Burned by gas at face of breast.
16	Michael Chesloski,	Polish,	Miner's laborer,	33	M.	Ellengowan,		Fall of coal at face of robbing.
21	John Jagelsky,	Polish,	Miner,	36	M.	Maple Hill,		Burned by gas at face of breast.
22	Michael Bunsavage,	Lithuanian,	Miner,	49	M.	Maple Hill,		Fall of coal at face of breast.
Aug. 12	Charles Barustus,	Lithuanian,	Miner,	46	M.	Tunnel Ridge,		Caught between gate and car while ascending slope.
18	Fred Roberts,	American,	Miner,	45	M.	North Mahanoy,		Struck by flying piece of coal.
Sept. 10	Anthony Todisco,	Italian,	Miner,	50	M.	Tunnel Ridge,		Premature blast at face of gangway.
19	Albert Becker,	American,	Conveyor tender,	24	M.	North Mahanoy,		Struck by fly wheel in engine house. (Outside)
29	John Butchinski,	American,	Slate picker,	16	S.	Maple Hill,		Falling off rock chute. (Outside)
Oct. 27	Michael Usack,	Slavonian,	Miner,	34	M.	Suffolk,		Fall of slate at face of breast.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Nov. 9	Charles Stern,	American,	Loader,	22	S.	Tunnel Ridge,	Schuylkill,	Falling from car.
22	Stiney Letcofsky,	Polish,	Miner,	57	M.	Saint Nicholas,		Squeezed between derailed mine car and timber.
28	Thomas Llewellyn,	Welsh,	Miner,	41	M.	Suffolk,		Rush of coal while driving chute.
Dec. 1	William Meyers,	German,	Laborer,	67	S.	North Mahanoy,		Struck by mule. (Outside)
12	Alex Letcusky,	Lithuanian,	Laborer,	65	M.	Suffolk,		Struck by rolling log while unloading timber. Outside.
20	Stiney Stefanovitch,	Polish,	Miner,	37	M.	Mapel Hill,		Rush of coal while starting coal down chute.
23	John Budzako,	Lithuanian,	Miner's laborer,	45	S.	Mapel Hill,		Struck by piece of coal from rib.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held at Mahanoy City, May 6 and 7. The Board of Examiners was composed of P. C. Fenton, Mine Inspector, Mahanoy City; Thomas R. Jones, Superintendent, Frackville; William Becker, Miner, Mahanoy City; Isaac Lewis, Miner, Mahanoy City.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Irvin Brown, Maple Hill; Joseph J. Chisick, Shenandoah; John Leahy, Ellangowan; Martin Walchak, Shenandoah; Harry Walters, George Mathews, Mahanoy City; John M. Mathews, Yatesville; John Tuskosky, Shenandoah, John H. Mathews, Jacksons; William E. Trevethan, Saint Nicholas.

ASSISTANT MINE FOREMEN

Samuel Shields, Hugh Williams, Mahanoy City; Edward Flynn, Shenandoah; James S. Coyne, Jacksons; Thomas Coakley, Edward Ryan, Ellangowan.

1919

TWENTY-FIRST DISTRICT

Schuylkill County

A. B. Lamb, Inspector, Shenandoah

SUMMARY OF STATISTICS

Collieries in operation (breakers),	11
Washeries in operation,	3
Mines in district,	23
Gaseous mines in operation,	17
Non-gaseous mines in operation,	6
Tons of coal shipped to market,	3,208,429
Tons used at mines for steam and heat,	410,357
Tons sold to local trade and used by employes,	58,741
Tons produced (gross),	3,677,527
Persons employed inside,	4,285
Persons employed outside,	2,815
Persons employed inside between 16 and 21 years,	269
Persons employed outside between 14 and 21 years,	668
Fatal accidents inside,	22
Fatal accidents outside,	7
Serious non-fatal accidents inside,	74
Serious non-fatal accidents outside,	14
Tons produced per fatal accident inside,	167,160
Tons produced per fatal accident inside and outside,	126,811
Persons employed per fatal accident inside,	195
Persons employed per fatal accident outside,	402
Persons employed per fatal accident inside and outside,	245
Persons employed per non-fatal accident inside,	58
Persons employed per non-fatal accident outside,	201
Persons employed per non-fatal accident inside and outside,	81
Wives made widows,	19
Children made orphans,	30
Steam locomotives outside,	60
Compressed air locomotives inside,	16
Electric motors inside,	37
Electric motors outside,	8
Tubular boilers,	140
Steam engines of all classes,	289
Electric dynamos,	30
Pumps of all classes,	109
Pumps delivering water to surface,	23
Air compressors,	22
Fans in use,	21

TABLE A

Production of Coal

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company, ...	1,580,378
Lehigh Valley Coal Company, ...	770,003
Locust Mountain Coal Company, ...	534,828
Susquehanna Collieries Company, ...	278,372
Harleigh-Brookwood Coal Company, ...	212,721
Thomas Colliery Company, ...	171,126
Girard Mammoth Coal Company, ...	110,418
Cambridge Coal Company, ...	19,681
Total, ...	3,677,527

Production by Counties

Schuylkill, ...	3,677,527

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside. number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	12	1	13	49	8	57	131,698	32,253	2,175	1,150	3,325	181	1,150	44	144
Lehigh Valley Coal Co.,	3	1	4	15	2	17	256,668	51,334	1,056	529	1,585	351	529	176	529
Locust Mountain Coal Co.,	5	3	8	6	1	7	106,966	89,138	393	454	847	79	151	65	454
Susquehanna Collieries Co.,	2	------	2	1	1	2	139,186	278,372	308	175	483	154	------	308	175
Harleigh-Brookwood Coal Co.,	------	------	------	------	1	1	------	------	------	152	152	------	------	------	152
Thomas Colliery Co.,	------	------	------	3	------	3	------	57,042	219	142	361	------	------	73	------
Girard Mammoth Coal Co.,	------	2	2	------	------	------	------	------	114	181	295	------	90	------	------
Cambridge Coal Co.,	------	------	------	------	1	1	------	------	20	32	52	------	------	------	32
Totals and averages,	22	7	29	74	14	88	167,160	49,696	4,285	2,815	7,100	195	402	58	201

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Indian Ridge,	Schuylkill,	E. E. Kaercher,	Pottsville,	J. B. Garner, Division Supt.	Shenandoah,	P. & R.
West Shenandoah,						
Kohinoor,						
Turkey Run,						
Shenandoah City,						
Plank Ridge Washery,						
Hammond,	Schuylkill,	G. B. Hadesty,	Pottsville,	Morgan Bevan, Division Supt.	Ashland,	
Lehigh Valley Coal Co., Packer Nos. 2, 3, 4 and 5,	Schuylkill,	Thomas P. Thomas	Wilkes Barre,	F. H. Wagner,	Lost Creek,	Lehigh Valley,
Locust Mountain Coal Co., Weston,	Schuylkill,	B. H. Stockett,	Shenandoah,	F. J. Neiman,	Shenandoah,	Lehigh Valley,
Susquehanna Collieries Co. William Penn,	Schuylkill,	Robert A. Quin,	Wilkes-Barre,	M. O. Edwards,	Shaft,	Pennsylvania.
Harleigh-Brookwood Coal Co.						
Black Creek No. 1 Washery,	Schuylkill,	Thomas R. Jones,	Frackville,	Richard Krapf,	Frackville,	Lehigh Valley. P. & R.
Black Creek No. 2 Washery,						
Thomas Colliery Co. Kehley Run,	Schuylkill,	T. R. Jones,	Frackville,	J. M. Holt,	Shenandoah,	P. & R.
Girard Mammoth Coal Co. Girard Mammoth,	Schuylkill,	Timothy Cockill,	Mahanoy City,	E. A. Thomas,	Raven Run,	P. & R.
Cambridge Coal Co. Cambridge,	Schuylkill,	B. F. James,	Shenandoah,	W. J. James,	Shenandoah,	P. & R.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Indian Ridge,	Schuylkill,	159,882	23,142	----------	183,024	277	434	2	9	375	100,841	1,000
West Shenandoah,		560,874	64,229	----------	625,103	278	643	3	11	----------	35,749	16,287
Kohinoor,†		----------	13,598	----------	13,598		201	2	6	----------	27,461	----------
Turkey Run,†		----------	----------	----------	†		590	4	14	975	90,490	----------
Shenandoah City,		266,419	44,210	44,696	355,325	277	691	----------	11	25	54,751	14,887
Hammond,		284,399	77,098	5,100	366,597	281	687	2	6	----------	119,770	30,592
		1,271,574	222,277	49,796	1,543,647	----------	3,246	13	57	1,375	429,062	62,766
Plank Ridge Washery,		32,211	4,520	----------	36,731	77	79	----------	----------	----------	134	----------
Totals,		1,303,785	226,797	49,796	1,580,378	----------	3,325	13	57	1,375	429,196	62,766
Lehigh Valley Coal Co.												
Packer No. 2,††	Schuylkill,	151,575	12,990	----------	164,565	250	276	1	4	----------	95,671	----------
Packer No. 3,††		109,251	----------	----------	109,251	250	159	----------	1	----------	29,300	----------
Packer No. 4,		105,916	58,175	1,373	165,464	250	405	1	5	----------	69,218	----------
Packer No. 5,		291,193	37,820	1,710	330,723	189	745	2	7	----------	134,575	----------
Totals,		657,935	108,985	3,083	770,003	----------	1,585	4	17	----------	328,764	----------
Locust Mountain Coal Co.												
Weston,	Schuylkill,	527,703	4,893	2,232	534,828	275	847	8	7	70,925	360,331	----------
Susquehanna Collieries Co.												
William Penn,	Schuylkill,	239,717	36,596	2,059	278,372	273	483	2	2	----------	116,321	----------

†Coal prepared at West Shenandoah breaker
††Coal prepared at Packer No. 4 breaker

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Harleigh-Brookwood Coal Co.												
Black Creek No. 1 Washery,	Schuylkill,	175,628	7,208	11	182,847	250	134	-------	1	-------	1,500	-------
Black Creek No. 2 Washery,	Schuylkill,	29,474	400	-------	29,874	133	18	-------	-------	-------	1,500	-------
Totals,		205,102	7,608	11	212,721	-------	152	-------	1	-------	3,000	-------
Thomas Colliery Co.												
Kehley Run,	Schuylkill,	154,482	15,527	1,117	171,126	245	361	-------	3	875	34,565	15,345
Girard Mammoth Coal Co.												
Girard Mammoth,	Schuylkill,	101,838	8,170	410	110,418	253	295	2	-------	1,500	8,500	18,000
Cambridge Coal Co.												
Cambridge,	Schuylkill,	17,867	1,781	33	19,681	131	52	-------	1	-------	4,350	4,350
Grand totals,	-------	3,208,429	410,357	58,741	3,677,527	-------	7,100	29	88	74 675	1,285,027	100,461

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.		----	--------	79	10,200	183	20,670	----	--------	5	1,030	82	62,304	11	7,251	206	----	10	11	11	11	9,785
Lehigh Valley Coal Co.,		----	--------	30	6,410	53	5,954	----	--------	3	650	14	10,400	4	6,300	54	----	6	----	22	7	1,470
Locust Mountain Coal Co.,		----	--------	----	--------	18	540	----	--------	----	--------	----	--------	----	--------	----	----	18	5	8	2	1,500
Susquehanna Collieries Co.,		----	--------	15	2,300	18	1,650	----	--------	----	--------	----	--------	1	1,300	65	----	1	----	----	1	1,600
Harleigh-Brookwood Coal Co.		----	--------	6	675	6	550	----	--------	3	187	3	1,600	----	--------	----	----	8	----	----	----	--------
Thomas Colliery Co.,		----	--------	3	450	----	--------	----	--------	19	1,257	3	3,000	2	2,000	32	----	3	----	----	----	--------
Girard Mammoth Coal Co.,		----	--------	3	750	3	175	----	--------	----	--------	7	6,600	5	5,000	16	----	12	----	4	1	280
Cambridge Coal Co.,		----	--------	4	500	8	400	----	--------	----	--------	----	--------	----	--------	----	----	2	----	----	----	--------
Totals,		----	--------	140	21,285	289	29,939	----	--------	30	3,124	109	83,904	23	21,851	73	----	60	16	45	22	14,635

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.	Schuylkill	7	48	------	868	380	------	------	4	------	93	33	35	262	17	------	17	411	2,175
Lehigh Valley Coal Co.,		6	33	------	512	133	------	------	24	23	24	23	26	52	12	10	17	161	1,056
Locust Mountain Coal Co.,		1	1	6	173	103	------	------	12	12	1	8	8	9	5	4	------	50	303
Susquehanna Collieries Co.,		1	10	------	155	9	------	------	------	------	35	3	8	12	9	------	2	64	308
Harleigh-Brookwood Coal Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Thomas Colliery Co.,		2	5	------	128	11	------	------	------	------	12	5	3	8	4	------	3	38	219
Girard Mammoth Coal Co.,		1	2	------	22	21	------	------	4	4	6	4	------	6	4	------	------	40	114
Cambridge Coal Co.,		1	1	------	15	2	------	------	------	------	1	------	------	------	------	------	------	------	20
Totals,		19	100	6	1,873	659	------	------	44	39	172	76	80	349	51	14	39	764	4,285

TABLE 3.—PART 1.—Number of each class of employes inside and outside—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill	--------	5	17	42	131	7	16	129	54	24	725	1,150	3,325
Lehigh Valley Coal Co.,	Schuylkill	--------	4	13	36	61	12	7	24	4	9	359	529	1,585
Locust Mountain Coal Co.,	Schuylkill	2	9	6	19	7	3	42	35	12	23	296	454	847
Susquehanna Collieries Co.,	Schuylkill	1	2	5	15	26	12	--------	24	3	10	77	175	483
Harleigh-Brookwood Coal Co.,	Schuylkill	1	3	1	4	22	3	2	12	--------	1	103	152	152
Thomas Colliery Co.,	Schuylkill	1	1	2	6	15	4	1	29	10	4	69	142	361
Girard Mammoth Coal Co.,	Schuylkill	1	1	2	12	23	6	4	24	9	3	96	181	295
Cambridge Coal Co.,	Schuylkill	1	1	1	2	9	--------	--------	6	--------	1	11	32	52
Totals,		7	26	47	136	294	47	72	283	92	75	1,736	2,815	7,100

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schuylkill	26	18	15	22	25	24	26	25	25	26	22	24	278
Lehigh Valley Coal Co.,	Schuylkill	25	6	6	17	19	22	25	24	25	21	21	24	235
Locust Mountain Coal Co.,	Schuylkill	26	9	14	26	26	25	25	26	25	25	26	25	275
Susquehanna Collieries Co.,	Schuylkill	24	14	21	23	24	24	25	23	25	26	21	23	273
Thomas Colliery Co.,	Schuylkill	24	10	9	19	21	21	22	24	25	26	21	23	245
Girard Mammoth Coal Co.,	Schuylkill	24	7	8	22	25	24	25	24	24	25	23	22	253
Cambridge Coal Co.,	Schuylkill	------	------	------	------	------	------	14	24	25	23	22	23	131

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 14	Thomas Flannery,	American,	Slatepicker,	16	S.			Packer No. 5,		Fell while climbing up chute and struck head against pipe. Outside.
Feb. 1	Russell Litweiler,	American,	Laborer,	18	S.			Weston,		Struck by descending steam shovel. Outside.
6	Joseph Super,	Polish,	Miner,	45	M.	1		West Shenandoah,		Fall of rock away from face.
Mar. 5	Mike Deshanic,	Russian,	Miner,	32	M.	1	4	Weston,		Crushed by falling timber.
April 2	Mike Sandor,	Greek,	Laborer,	60	M.	1		Weston,		Struck by empty trip of cars in stripping. Outside.
5	Anthony Stitscavage,	Lithuanian,	Miner,	35	M.	1	2	Weston,		Fall of roof near face of pillar.
29	Paul Ferrence,	Polish,	Miner,		M.	1	4	Weston,		Fall of roof at face of breast.
	Stine Yana'e'tis,	Lithuanian,	Miner,	33	M.	1		Turkey Run,		Fall of roof near face of chute.
30	John Noone,	American,	Company man,	18	S.			Packer No. 4,		Caught between empty trip and loaded trip at bottom of slope.
June 2	John Rogdanovage,	Polish,	Miner,	25	M.	1		Indian Ridge,		Fall of roof away from face.
28	Peter Heinbach,	American,	Miner,	56	M.	1		Weston,		Fall of coal near face of pillar.
July 30	Mathew Bernosky,	Lithuanian,	Miner,	20	M.	1		William Penn,		Fall of roof at face of gangway.
Aug. 9	John Ferrong,	Greek,	Miner,	30	M.	1	2	William Penn,		Smothered by rush of coal at face of pillar.
22	Victor Cosloskie,	Lithuanian,	Fanman,	34	M.	1		Indian Ridge,		Crushed when he fell from car while being hoisted out of slope.
	Martin Burns,	American,	Car runner,	16	S.			Weston,	Schuylkill,	Caught by car on hoist and crushed. Outside.
25	Joseph Petrouskie,	Russian,	Miner,	29	M.	1		Packer No. 5,		Falling off cage into shaft.
Sept. 2	Walter Petrobage,	Polish,	Miner,	30	S.			Kohinoor,		Fall of coal while loading buggy at face of pillar.
	Charles Priser,	Austrian,	Carpenter,	62	M.	1		Hammond,		Falling from board to floor at breaker—standing on board to take pitch of chute. Outside.
	John Kelly,		Miner,	44	M.	1	4	Hammond,		Fall of rock at face of pillar.
26	Walter Eleaer,	German, Austrian,	Engineer,	33	S.			Girard Mammoth.		Smothered by slide of clay from embankment. Outside.
29	William Andrulavage,	Polish,	Driver,	25	S.			Turkey Run,		Thrown from trip of cars on gangway.
Oct. 21	Anthony Skibar,	American	Miner,	43	M.	1	6	West Shenandoah.		Explosion of gas in breast.
Nov. 4	Anthony Strincofskie,		Miner,	45	M.	1	1	Kohinoor,		Fall of coal at face of gangway.
8	John Odomick,		Laborer,	44	S.			Girard Mammoth.		Burned by explosion of gas produced when material from burning bank rushed into water used to extinguish fire. Outside.
18	Charles Usavage,		Miner,	29	S.			Turkey Run,		Rush of fine coal and slate in chute.

Nov.	18	Peter Sahuskie,	American,	Miner,	24	M.	1	4	Weston,	Schuylkill,	Explosion of blast—lighting fuse.
	28	Peter Govaditus,	Polish,	Miner,	40	M.	1	3	West Shenandoah.		Fall of coal while drilling hole at face of breast.
Dec.	17	Joseph Susinskie,	Lithuanian,	Miner,	46	M.	1	------	Turkey Run,		Fall of coal at face of pillar.
		John McGee,	American,	Doorboy,	17	S.	------	------	Packer No. 2,		Caught by cars when hitching plate pulled out on slope and cars came back—left his working place.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 1	Jos. Radinskie,	Polish,	Driver,	17	S.	Indian Ridge,		Squeezed between cars.
25	Theo. Klusman,	American,	Loco engineer,	21	S.	Hammond,		Squeezed by locomotive.
27	William Wilbus,	Russian,	Miner,	38	M.	Packer No. 5,		Burned by gas—struck match.
	Jos. Popika,	Russian,	Miner,	34	M.	Packer No. 2,		Caught by rushing coal.
Feb. 4	Stiney Wesleskie,	Russian,	Miner,	41	S.	Packer No. 5,		Caught by rushing coal.
6	Stephen Shultz,	Polish,	Driver,	18	S.	Turkey Run,		Caught by spreader and tramped upon by mule.
	Larry Lindemuth,	American,	Miner's laborer,	24	S.	Packer No. 4,		Caught by gunboat at bottom of slope.
21	Thomas Tallett,	American,	Miner,	32	M.	Shenandoah City,		Caught by piece of coal.
27	Walter Andreweonis,	Polish,	Miner's laborer,	19	S.	Shenandoah City,		Lifting car.
March 9	Wassil Butromavage,	Lithuanian,	Miner,	50	M.	Weston,		Fall of rock.
19	Stiney Narbut,	Russian,	Miner,	36	M.	Indian Ridge,		Struck by falling timber.
25	Peter Gusduskie,	Polish,	Miner,	51	M.	West Shenandoah,		Caught between car and timber.
28	John Stanchock,	Polish,	Miner,	33	S.	Kohinoor,		Premature blast.
31	George Mickey,	Lithuanian,	Starter,	38	M.	Hammond,		Fall of coal from face.
April 7	Charles Shoup,	American,	Miner's laborer,	19	S.	Weston,		Lifting tie.
8	Stiney Goodcouskie,	Russian,	Miner,	49	M.	Packer No. 2,		Burned by gas—used naked light.
9	Simon Kobozinskie,	Lithuanian,	Miner,	54	M.	West Shenandoah,		Burned by gas used naked light.
	Gasper Bewsaporris,	Lithuanian,	Miner,	44	M.	West Shenandoah,		Burned by gas—used naked light in gas.
10	Frank Applegate,	American,	Miner,	43	M.	Turkey Run,	Schuylkill,	Cut while cranking automobile. Outside.
	Pierce Shoup,	American,	Miner's laborer,	59	M.	Weston,		Premature blast.
16	Frank Shultz,	American,	Miner,	48	M.	Indian Ridge,		Struck hand against nail.
17	Jos. Benashonis,	American,	Driver,	19	S.	West Shenandoah,		Caught between spreader and car.
22	Benj. Zemaitis,	American,	Driver,	22	S.	Turkey Run,		Caught between sprag and wheel.
25	Walter Bushinsky,	Polish,	Miner,	27	M.	Turkey Run,		Fall of coal from face.
26	John McGee,	American,	Doorboy,	16	S.	Packer No. 2,		Falling.
May 1	William Yanchulis,	American,	Miner's laborer,	23	M.	Turkey Run,		Run over by motor.
19	John Fododich,	Greek,	Laborer,	17	S.	Shenandoah City,		Caught by dipper and pulley wheel. Outside.
	John Suscavage,	Lithuanian,	Miner,	36	S.	Hammond,		Struck by rolling coal.
26	Jacob Chuleo,	Polish,	Laborer	43	S.	Shenandoah City,		Falling from trestle. Outside.
28	Con. Socholosky,	Lithuanian,	Miner,	27	M.	Packer No. 4,		Struck by sliding rock from gob.
	Joseph Sunzick,	Polish,	Miner,	33	M.	Kohinoor,		Lifting prop.
31	Adam Savage,	Polish,	Miner,	28	S.	Weston,		Falling on rail.
June 4	Mike Simanabage,	Russian,	Miner,	26	M.	Packer No. 5,		Burned by gas—walked into gas with naked light.
	Joseph Bertasabage,	Polish,	Miner,	30	M.	Kehley Run,		Fall of top coal.
	Elie Gregonis,	Polish,	Miner,	35	M.			
7	Joseph Wynovage,	Lithuanian,	Miner's laborer,	50	M.	Kohinoor,		Crushed by cage in shaft.

	11	Brown Swatskie,	Polish,	Miner,	34	M.	Turkey Run,		Struck by axe.
	20	John Rolonoskie,	Polish,	Miner,	37	M.	West Shenandoah,		Fall of top coal.
	21	John Purcell,	American,	Miner's laborer,	38	S.	West Shenandoah,		Timber fell on fingers.
July	4	Oscar Rhoadarmel,	American,	Fireman,	44	M.	Packer No. 5,		Crushed by sprocket wheel. Outside.
	7	George Taylor,	Polish,	Miner,	43	M.	Indian Ridge,		Fall of slate near face.
	22	Louis Mordis,	Lithuanian,	Miner,	48	M.	Turkey Run,		Struck by rolling coal.
Aug.	4	Hugh Rock,	American,	Miner's laborer,	43	S.	Hammond,		Falling on cage while descending shaft.
	7	Peter Mehonus,	American,	Miner,	23	S.	Weston,		Car fell on him while repairing it. Outside.
	13	William Burns,	American,	Tipman,	20	S.	Hammond,		Caught between cars. Outside.
		Mike Showdis,	Polish,	Miner,	50	M.	Indian Ridge,		Fall of rock at face.
	22	Anthony Navitsky,	Polish,	Miner,	53	M.	Kohinoor,		Lifting timber.
	25	Larry Grutza,	Austrian,	Miner,	49	S.	Packer No. 3,		Fall of top coal at face.
	28	Joseph Sloviek,	Polish,	Miner,	44	M.	Turkey Run,		Falling.
	30	Peter Petukus,	Lithuanian,	Miner's laborer,	30	S.	Weston,		Caught between buggy and top.
Sept.	4	George Harrison,	American,	Miner's laborer,	47	M.	Shenandoah City,		Struck foot against sill.
		Michael Dormer,	American,	Switchman,	29	S.	Turkey Run,		Caught between rope and wheel. Outside.
	10	Jacob Houran,	Polish,	Miner,	39	M.	Shenandoah City,		Struck by piece of coal.
	13	Edward White,	American,	Carpenter,	34	S.	Packer No. 4,		Struck by piece of steel.
	22	John Pajunas,	Lithuanian,	Bottomman,	38	M.	Turkey Run,		Struck by falling timber.
	24	Anthony Voushinskie,	Polish,	Miner,	50	S.	West Shenandoah,		Burned by gas—used naked light in gas.
	25	Paul May,	Polish,	Miner,	42	M.	West Shenandoah,		Fall of coal from face.
	27	Bolick Brogop kie,	Polish,	Miner,	42	M.	Indian Ridge,		Fall of coal from face.
		Frank Lavolie,	Lithuanian,	Miner,	25	S.	Turkey Run,		Struck by piece of coal.
	29	Matt Seroubis,	Lithuanian,	Miner,	46	M.	Kehley Run,	Schuylkill,	Fall of coal from face.
Oct.	3	Frank Tomashitus,	Lithuanian,	Miner,	29	S.	Kohinoor,		Struck by piece of coal.
	4	Joseph Zimuba,	American,	Slatepicker,	17	S.	Cambridge,		Caught in machinery. Out ide.
	6	John Drojack,	Greek,	Fireman,	45	M.	Indian Ridge,		Caught in machinery. Out ide.
	8	Peter Gober,	Lithuanian,	Miner,	45	M.	Indian Ridge,		Coal broke in hands.
	10	Joe Rudnicki,	Polish,	Miner,	51	M.	West Shenandoah,		Pushing car.
	11	John Ranchulis,	Lithuanian,	Miner,	35	S.	Shenandoah City,		Burned by ga —entered gas with naked light.
	13	Frank Strauskie,	Polish,	Topman,	29	S.	Turkey Run,		Caught by spreader chain.
	14	William Briggs,	American,	Carpenter,	40	M.	Weston,		Struck by piece of lumber.
	15	Michael Suana,	Polish,	Miner,	30	M.	West Shenandoah,		Getting out of moving car.
	18	William Zuranskie,	Polish,	Miner,	37	M.	Indian Ridge,		Fall of coal from face.
	21	Peter Sucheskie,	Polish,	Miner,	44	M.	West Shenandoah,		Burned by gas—walked into gas with naked light.
Nov.	4	Thomas Shincavage,	Lithuanian,	Laborer,	46	M.	Kohinoor,		Squeezed between car and timber.
	20	William Sigmund,	American,	Doorboy,	18	S.	Packer No. 2,		Crushed by cars when rope broke.
	21	August Hess,	American,	Foreman,	41	M.	William Penn,		Falling with sill on shoulder. Outside.
	22	Celestine Post,	American,	Laborer,	17	S.	Turkey Run,		Struck by car gallows. Out ide.
	25	Chester Levenduskie,	American,	Fan-boy,	17	S.	Shenandoah City,		Caught in fan cogs.
	26	John Barofskie,	Polish,	Driver,	17	S.	Shenandoah City,		Thrown from mule.
Dec.	11	Enoch Machunskie,	American,	Miner,	47	M.	William Penn,		Fall of rock at face.
	12	Tony Ambrose,	Italian,	Miner's laborer,	45	M.	Packer No. 4,		Struck by coal on slope.
	15	Mike Dowling,	American,	Topman,	39	M.	Shenandoah City,		Caught by spreader chain.
	16	Robert Hanna,	American,	Conductor,	18	S.	Black Creek Washery,		Caught between locomotive and car. Outside.
		Ignatious Cottington,	American,	Jig runner,	17	S.	Packer No. 5,		Caught in machinery. Outside.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Dec. 17	Paul Natasavage,	Austrian,	Miner,	41	M.	Packer No. 5,		Fall of top coal at face.
18	Joe. Brazuskie,	American,	Conductor,	28	S.	Packer No. 4,		Caught by cars—coupling.
19	Mike Nosincheck,	Hungarian,	Miner,	24	S.	Hammond,		Explosion of blast.
20	Martin Glinskie,	Lithuanian,	Miner,	36	M.	Shenandoah City,	Schuylkill,	Caught between car and prop.
23	Mike Coyle,	American,	Carpenter,	35	S.	Packer No. 5,		Caught by machinery.
24	John Brown,	American,	Laborer,	26	S.	Turkey Run,		Pushing car. Outside.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Shenandoah. The Board of Examiners was composed of A. B. Lamb, Mine Inspector; W. W. Williams, Superintendent, Shaft; John Mahan, Miner, Shenandoah; Peter Heinbach, Miner, Shenandoah.

The following persons passed a satisfactory examination and were granted certificates:

ASSISTANT MINE FOREMEN

John Jones, Walter J. Kogut, Michael J. McHale, Benjamin Sobolesky, Frank P. Curry, Frank Glowacky, Harry Manincor, Joseph Galiney, Shenandoah; Nicholas J. Whalen, Lost Creek.

1919

TWENTY-SECOND DISTRICT

Schuylkill, Columbia and Northumberland Counties

Wm. Reid, Inspector, Centralia

SUMMARY OF STATISTICS

Collieries in operation (breakers),	13
Washeries in operation,	3
Mines in district,	40
Gaseous mines in operation,	30
Non-gaseous mines in operation,	10
Tons of coal shipped to market,	3,152,911
Tons used at mines for steam and heat,	627,687
Tons sold to local trade and used by employes,	43,419
Tons produced (gross),	3,824,017
Persons employed inside,	4,985
Persons employed outside,	2,844
Persons employed inside between 16 and 21 years,	380
Persons employed outside between 14 and 21 years,	749
Fatal accidents inside,	21
Fatal accidents outside,	4
Serious non-fatal accidents inside,	31
Serious non-fatal accidents outside,	10
Tons produced per fatal accident inside,	182,096
Tons produced per fatal accident inside and outside,	152,961
Persons employed per fatal accident inside,	237
Persons employed per fatal accident outside,	711
Persons employed per fatal accident inside and outside,	313
Persons employed per non-fatal accident inside,	161
Persons employed per non-fatal accident outside,	284
Persons employed per non-fatal accident inside and outside,	191
Wives made widows,	19
Children made orphans,	38
Steam locomotives outside,	54
Compressed air locomotives inside,	2
Electric motors inside,	42
Electric motors outside,	5
Gasoline locomotives inside,	4
Tubular boilers,	182
Steam engines of all classes,	331

Internal combustion engines (gas),	3
Electric dynamos,	22
Pumps of all classes,	152
Pumps delivering water to surface,	40
Air compressors,	27
Fans in use,	37

TABLE A

Production of Coal.

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company,	1,922,208
Lehigh Valley Coal Company,	827,728
Harleigh-Brookwood Coal Co.,	338,217
Midvalley Coal Company,	273,931
East Bear Ridge Coal Company,	221,178
W. R. McTurk Coal Company,	117,687
Locust Dale Coal Company,	107,250
Laurel Coal Mining Company,	15,818
Total	3,824,017

Production by Counties

Schuylkill,	1,745,011
Columbia	1,099,632
Northumberland	979,374
Total	3,824,017

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	13	3	16	17	6	23	147,862	113,071	2,621	1,548	4,169	202	516	154	258
Lehigh Valley Coal Co.,	2	------	2	3	3	6	413,864	275,909	1,097	488	1,585	549	----------	366	163
Harleigh-Brookwood Coal Co.,	4	------	4	3	------	3	84,554	112,739	466	258	724	117	----------	155	----------
Midvalley Coal Co.,	2	------	2	3	------	3	136,966	91,310	266	182	448	133	----------	89	----------
East Bear Ridge Coal Co.,	------	1	1	1	------	1	----------	221,178	329	141	470	----------	141	329	----------
W. R. McTurk Coal Co.,	------	------	------	4	1	5	----------	29,422	167	154	321	----------	----------	42	154
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	39	73	112	----------	----------	----------	----------
Totals and averages,	21	4	25	31	10	41	182,096	123,355	4,985	2,844	7,829	237	711	161	284

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Locust Gap,	Northumberland,	G. B. Hadesty,	Pottsville,	W. A. Seitzinger,	Mount Carmel,	P. & R.
Locust Spring,	Northumberland,			W. A. Seitzinger,	Mount Carmel,	
Potts,	Columbia,			Morgan Bevan,	Ashland,	
Bast,	Schuylkill,			Morgan Bevan,	Ashland,	
Gilberton,	Schuylkill,			Morgan Bevan,	Ashland,	
Draper,	Schuylkill,			Morgan Bevan,	Ashland,	
Boston Run,	Schuylkill,	E. E. Kaercher,	Pottsville,	T. B. Van Buren,	Mahanoy City,	
Locust Spring Washery,*	Northumberland,	G. B. Hadesty,	Pottsville,	W. A. Seitzinger,	Mount Carmel,	
Bancroft Washery,	Schuylkill,	G. B. Hadesty,	Pottsville,	Morgan Bevan,	Ashland,	
Lehigh Valley Coal Co.						
Centralia,	Columbia,	Thos. P. Thomas,	Wilkes-Barre,	H. J. Heiner,	Centralia,	Lehigh Valley.
Sayre,	Northumberland,					
Continental Washery,	Columbia,					
Harleigh-Brookwood Coal Co.						
Lawrence,	Schuylkill,	T. R. Jones,	Frackville,	E. D. Straub,	Frackville,	Penna. and P. & R.
Midvalley Coal Co.						
Midvalley,	Columbia,	T. E. Snyder,	Hazleton,	Peter Shovlin,	Wilburton,	Lehigh Valley.
East Bear Ridge Coal Co.						
East Bear Ridge,	Schuylkill,	G. T. Davis,	Scranton,	Isaac D. Thomas,	Mahanoy Plane,	P. & R.
W. R. McTurk Coal Co.						
Girard,	Schuylkill,	M. H. McTurk,	Girardville,			P. & R.
Locust Dale Coal Co.						
Locust Dale Washery,	Columbia,	James B. Neale,	Mineersville,	Charles L. Yeager,	Ashland,	P. & R.
Laurel Coal Mining Co.						
Bickel,	Schuylkill,	Daniel J. Boyle,	Mowry,	Daniel J. Boyle,	Mowry,	P. & R.

*Abandoned.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Locust Gap,	Northumberland,	458,347	11,106	2,223	471,676	275	323	4	1	----------	152,089	7,855
Locust Spring,*	Northumberland,	----------	77,607	----------	77,607	*	847	4	8	----------	140,589	19,320
Potts,	Columbia,	270,884	40,737	9,193	320,814	284	681	4	4	----------	98,593	94,355
Bast,	Schuylkill,	236,988	58,140	8,779	303,907	280	650	----------	5	----------	130,794	22,063
Gilberton,	Schuylkill,	185,920	66,072	5,798	257,790	284	642	3	1	----------	157,396	----------
Draper,	Schuylkill,	197,605	33,581	----------	231,186	280	443	----------	2	----------	111,410	----------
Boston Run,	Schuylkill,	119,944	64,999	----------	184,943	274	423	1	2	----------	124,766	1,488
		1,469,688	352,242	25,993	1,847,923	----------	4,009	16	23	----------	915,547	145,081
Bancroft Washery,	Schuylkill,	70,843	3,442	----------	74,285	81	160	----------	----------	1,875	4,515	75
Totals,		1,540,531	355,684	25,993	1,922,208	----------	4,169	16	23	1,875	920,062	145,156
Lehigh Valley Coal Co.												
Centralia,	Columbia,	190,295	45,597	3,591	248,483	150	744	1	2	----------	151,754	----------
Sayre,	Northumberland,	341,861	80,141	8,089	430,091	255	809	1	4	101	254,727	----------
		541,156	125,738	11,680	678,574	----------	1,553	2	6	101	406,481	----------
Continental Washery,	Columbia,	148,386	768	----------	149,154	204	32	----------	----------	----------	----------	----------
Totals,		689,542	126,506	11,680	827,728	----------	1,585	2	6	101	406,481	----------
Harleigh-Brookwood Coal Co.												
Lawrence,	Schuylkill,	292,962	45,255	----------	338,217	263	724	4	3	----------	122,850	29,600
Midvalley Coal Co.												
Midvalley,	Columbia,	215,356	55,846	2,729	273,931	272	448	2	3	125	172,650	----------
East Bear Ridge Coal Co.												
East Bear Ridge,	Schuylkill,	210,209	8,100	2,869	221,178	270	470	1	1	----------	97,050	3,700

W. R. McTurk Coal Co. Girard,	Schuylkill,	85,287	32,400	----------	117,687	216	321	--------	5	----------	49,750	6,500
Locust Dale Coal Co. Locust Dale Washery,	Columbia,	103,494	3,608	148	107,250	124	47	--------	--------	----------	----------	----------
Laurel Coal Mining Co. Bickel,	Schuylkill,	15,530	288	----------	15,818	300	65	--------	--------	----------	5,625	800
Grand totals,		3,152,911	627,687	43,419	3,824,017	--------	7,829	25	41	2,101	1,774,468	185,756

*Coal prepared at Locust Gap Breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Northumberland, Columbia, Schuylkill,	----	--------	116	14,230	242	39,841	----	--------	12	2,597	114	90,090	17	14,357	352	-	23	2	11	17	16,134
Lehigh Valley Coal Co.,	Columbia, Northumberland,	----	--------	26	5,650	50	5,900	----	--------	5	1,050	13	13,700	7	10,700	91		10	----	21	----	--------
Harleigh-Brookwood Coal Co.,	Schuylkill,	----	--------	8	2,800	6	2,675	----	--------	----	--------	7	18,000	3	2,200	50	-	5	----	6	3	3,900
Midvalley Coal Co.,	Columbia,	----	--------	18	3,555	7	633	3	150	2	100	8	10,256	8	10,256	47		7	----	2	2	1,600
East Bear Ridge Coal Co.,	Schuylkill,	----	--------	8	1,300	6	1,100	----	--------	2	440	4	2,500	3	2,000	20	-	2	----	5	3	1,600
W. R. McTurk Coal Co.,	Schuylkill,	----	--------	5	2,250	20	1,900	----	--------	1	50	3	6,200	2	1,800	20	-	4	----	2	1	2,400
Locust Dale Coal Co.,	Columbia,	----	--------	----	--------	----	--------	----	--------	----	--------	2	1,300	----	--------	1	-	3	----	----	----	--------
Laurel Coal Mining Co.,	Schuylkill,	----	--------	1	90	----	--------	----	--------	----	--------	1	1,000	----	--------	8	-	----	----	----	1	190
Totals,		----	--------	182	29,875	331	52,049	3	150	22	4,237	152	143,055	40	41,313	589		54	2	47	27	25,824

TABLE 3.—PART 1.—Number of ea ch class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Philadelphia and Reading Coal and Iron Co.,	Northumberland, Columbia, Schuylkill,	11	59	------	1,103	220	------	------	8	------	134	53	116	258	30	------	23	606	2,621
Lehigh Valley Coal Co.,	Columbia, Northumberland,	7	31	------	522	124	------	------	23	23	41	22	21	54	11	8	15	195	1,097
Harleigh-Brookwood Coal Co.,	Schuylkill,	2	3	7	227	50	------	------	6	6	30	8	2	20	17	5	2	81	466
Midvalley Coal Co.,	Columbia,	2	4	------	128	57	------	------	------	------	19	8	3	20	13	6	------	6	266
East Bear Ridge Coal Co.,	Schuylkill,	1	7	------	150	81	------	------	5	5	9	6	------	21	2	3	1	38	329
W. R. McTurk Coal Co.,	Schuylkill,	1	3	------	63	4	------	------	2	2	7	4	4	42	4	1	3	27	167
Locust Dale Coal Co.,	Columbia,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Laurel Coal Mining Co.,	Schuylkill,	1	1	------	24	2	------	------	------	------	2	------	1	------	------	------	------	8	39
Totals,		25	108	7	2,217	538	------	------	44	36	242	101	147	415	77	23	44	961	4,985

TABLE 3.—PART 1.—Number of each class of employes inside and outside—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Northumberland, Columbia, Schuylkill,	1	8	22	65	1	6	10	39	170	31	1,005	1,548	4,169
Lehigh Valley Coal Co.,	Columbia, Northumberland	--------	4	8	30		7	8	29	6	8	336	488	1,585
Harleigh-Brookwood Coal Co.,	Schuylkill,	1	2	4	14		3	2	25	8	4	150	258	724
Midvalley Coal Co.,	Columbia,	1	2	6	5		5	3	22	--------	3	115	182	448
East Pear Ridge Coal Co.,	Schuylkill,	1	1	2	8		2	4	15	3	5	88	141	470
W. R. McTurk Coal Co.,	Schuylkill,	1	1	2	10		3	2	16	4	3	81	154	321
Locust Dale Coal Co.,	Columbia,	1	--------	1	4		1	--------	5	1	1	30	47	47
Laurel Coal Mining Co.,	Schuylkill,	1	--------	1	2		2	--------	--------	--------	1	17	26	65
Totals,		7	18	46	138		29	29	151	192	56	1,822	2,844	7,829

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Columbia, Northumberland, Schuylkill,	26	18	15	23	25	24	25	25	25	26	23	25	280
Lehigh Valley Coal Co.,	Columbia, Northumberland	23	11	8	9	11	11	11	24	24	25	21	24	202
Harleigh-Brookwood Coal Co.,	Schuylkill,	25	10	12	21	23	22	25	25	25	26	23	26	263
Midvalley Coal Co.,	Columbia,	26	12	14	22	25	25	26	24	25	26	22	25	272
East Bear Ridge Coal Co.,	Schuylkill,	26	12	15	24	25	21	26	24	24	26	23	24	270
W. R. McTurk Coal Co.,	Schuylkill,	21	------	------	24	19	21	23	22	23	21	20	22	216
Laurel Coal Mining Co.,	Schuylkill,	26	22	26	25	26	24	26	25	25	26	23	26	300

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Mar. 10	August Chaplinski,	Lithuanian,	Miner,	50	M	1		Gilberton,	Schuylkill,	Cars at head of plane. Outside.
25	Peter Moran,	American,	Companyman	35	S			Locust Spring,	Northumberland,	Explosion of gas in breast.
April 6	James Clark,	American,	Electrician,	38	M	1	5	Lawrence,	Schuylkill,	Electric locomotive started while he was under it.
13	John Burgand,	American,	Waterman,	49	M	1	6	Locust Spring,	Northumberland,	Explosion of steam boiler. Outside.
	George Yacol,	Austrian,	Fireman,	40	M	1				
May 5	Syl Marzencavage,	Lithuanian,	Miner,	46	M	1	1	Locust Gap,	Northumberland,	Rush of coal while robbing pillars.
June 21	Alex Maurer,	American,	Miner,	71	M	1		Potts,	Columbia,	Explosion of gas in chamber.
	James Schaeffer,	American,	Miner,	38	M	1	2			
25	John Lahutski,	Hungarian,	Laborer,	49	M	1	3	Gilberton,	Schuylkill,	Falling down water shaft.
July 1	David Davis,	American,	Driver,	20	S			Lawrence,	Schuylkill,	Fall of roof on gangway.
22	William Reagan,	American,	Miner,	38	M	1	4	Potts,	Columbia,	Rush of coal in breast.
Aug. 19	William Readcavage,	Lithuanian,	Miner,	24	S			Gilberton,	Schuylkill,	Rush of coal in chute.
21	John Sager,	American,	Miner,	26	M	1		Potts,	Columbia,	Premature blast in face of chamber—tamping.
Sept. 13	Anthony Brazinski,	Lithuanian,	Miner,	44	M	1	2	Sayre,	Northumberland,	Fall of roof at face of pillar.
18	Robert Anderson,	American,	Electrician,	22	M	1		Centralia,	Columbia,	Caught between concrete wall and electric motor.
4	Joseph Sucanovage,	Lithuanian,	Miner,	41	M	1		Locust Gap,	Northumberland,	Explosion of gas in chamber.
30	Frank Hyak,	Bohemian,	Miner,	56	M	1		Midvalley,	Columbia,	Fall of roof at face of chamber.
Oct. 9	Charles Sudnick,	Polish,	Miner,	27	S			Locust Gap,	Northumberland,	Explosion of blast at face of gangway.
	Stiney Olshefski,	Polish,	Miner,	40	M	1	5			
19	Jacob Betz,	American,	Miner,	42	M	1	6	Locust Spring,	Northumberland,	Fall of roof near foot of shaft.
24	Thomas Irwin,	American,	Slatepicker,	17	S			East Bear Ridge,	Schuylkill,	Suffocated in coal pocket in breaker. Outside.
21	Mike Lipchinsky,	Lithuanian,	Miner,	55	M	1		Boston Run,	Schuylkill,	Falling timber in gangway.
Nov. 10	Lewis Newada,	Austrian,	Miner,	25	M	1	1	Lawrence,	Schuylkill,	Rush of rock and slate in chute.
28	Mike Kawalits,	Slavonian,	Miner's laborer,	28	S			Midvalley,	Columbia,	Fall of roof at face of pillar.
Dec. 18	John Krill,	Austrian,	Miner,	36	M	1	3	Lawrence,	Schuylkill,	Suffocated by loose coal in breast.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 2	Bernard Mooney,	American,	Brakeman,	17	S.	Bast,	Schuylkill,	Struck by cars on gangway.
14	Peter Swatski,	Polish,	Miner	35	M.	Midvalley,	Columbia,	Burned by explosion of gas in chamber.
16	Alfred Williams,	American,	Laborer,	17	S.	Girard,	Schuylkill,	Bumped by mine cars. Outside.
24	Adam Krick,	Lithuanian,	Miner,	33	M.	Girard,	Schuylkill,	Burned by explosion of gas in chamber.
26	John Bindokas,	Lithuanian,	Miner,	36	M.	Girard,	Schuylkill,	Burned by explosion of gas in chamber.
Feb. 19	John Maxinick,	Austrian,	Driver,	22	S.	Lawrence,	Schuylkill,	Caught between car and timber.
Mar. 13	Peter Klaman,	American,	Miner,	56	M.	Potts,	Columbia,	Caught between mine car and timber.
21	Mike Verbetski,	Russian,	Miner,	37	S.	Locust Gap,	Northumberland,	Fall of coal at face of pillar.
April 24	Frank Lash,	Austrian,	Miner,	30	M.	Lawrence,	Schuylkill,	Burned by explosion of blast.
25	Mike Krutckio,	Polish,	Miner,	38	M.	Midvalley,	Columbia,	Struck by piece of clod that fell from pillar.
May 2	Men Cominski,	American,	Brakeman,	16	S.	Girard,	Schuylkill,	Caught by car on gangway.
15	Leonard McGinn,	American,	Driver,	31	M.	Locust Spring,	Northumberland,	Caught between bumpers of cars at foot of shaft.
17	Joseph Madden,	American,	Laborer,	38	S.	Locust Spring,	Northumberland,	Caught between car and beam in ash pit. Outside.
June 5	William Wetzel,	American,	Carpenter,	34	M.	Potts,	Columbia,	Falling from scaffold. Outside.
30	Bernard Miller,	American,	Laborer,	20	S.	Bast,	Schuylkill,	Bumped by mine car. Outside.
July 14	Mike Populsky,	Lithuanian,	Miner,	50	M.	Gilberton,	Schuylkill,	Fall of coal at face of chamber.
29	Frank Kervitski,	Russian,	Miner,	25	M.	Locust Spring,	Northumberland,	Burned by explosion of gas in chamber.
Aug. 1	George Hughes,	American,	Miner,	51	M.	Potts,	Columbia,	Caught by cars on gangway.
16	Daniel Whary,	American,	Loader,	17	S.	Locust Spring,	Northumberland,	Falling down chute.
18	William Whalen,	American,	Blacksmith,	50	M.	Locust Spring,	Northumberland,	Struck by rope.
	Anthony Goodlefski,	American,	Oiler,	19	S.	Sayre,	Northumberland,	Caught by machinery in breaker. Outside.
	Mike Lewbadger,	Lithuanian,	Miner,	40	M.	Boston Run,	Schuylkill,	Falling timber.
21	Henry Basche,	American,	Platform-man,	50	M.	Locust Spring,	Northumberland,	Struck by piece of rock from conveyor line. Outside.
Sept. 20	Mike Lock,	Lithuanian,	Miner's laborer,	45	M.	Potts,	Columbia,	Explosion of blast on gangway.
28	Joseph McDonald,	American,	Miner's laborer,	26	S.	Bast,	Schuylkill,	Falling timber in chamber.
29	Joseph Daye,	American,	Slatepicker,	17	S.	Locust Spring,	Northumberland,	Caught in conveyor belt in breaker. Outside.
Oct. 1	Mathew Ploppet,	American,	Switchman,	26	M.	Boston Run,	Schuylkill,	Cars.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Oct. 8	Joseph Stank,	Lithuanian,	Miner,	56	S.	Draper,	Schuylkill,	Cars on gangway.
13	Harrison Bailey,	American,	Miner,	39	M.	Sayre,	Northumberland,	Cars at foot of shaft.
14	Anthony Kayzmer,	American,	Laborer,	16	S.	Sayre,	Northumberland,	Cars—coupling. Outside.
Nov. 6	Arthur Allen,	American,	Slatepicker,	16	S.	Locust Spring,	Northumberland,	Falling down rock chute. Outside.
7	Michael Shefskil,	Russian,	Miner,	32	M.	Sayre,	Northumberland,	Struck by piece of coal falling from rib—loading car.
8	Frank Mort,	American,	Patcher,	18	S.	Girard,	Schuylkill,	Locomotive on gangway.
	John Morgan,	American,	Miner,	42	M.	East Bear Ridge,	Schuylkill,	Explosion of blast.
	Tim Farrel,	American,	Laborer,	43	S.	Centralia,	Columbia,	Crushed between wrench and car.
17	William Williams,	American,	Driver,	20	S.	Draper,	Schuylkill,	Cars.
Dec. 2	Mike Sheron,	American,	Miner,	42	S.	Bast,	Schuylkill,	Explosion of blast.
3	Ignatius Walsh,	American,	Slatepicker,	18	S.	Centralia,	Columbia,	Falling off platform in breaker. Outside.
16	Dennis O'Neill,	American,	Miner,	40	S.	Bast,	Schuylkill,	Fall of rock—loading car.
20	Vedro Vedro,	Polish,	Miner,	32	M.	Midvalley,	Columbia,	Fall of coal from face.
	George Lackett,	American,	Miner,	35	M.	Lawrence,	Schuylkill,	Explosion of cap and cartridge.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as mine foremen and assistant mine foremen, was held in Centralia, May 6 and 7. The Board of Examiners was composed of William Reid, Mine Inspector, Centralia; H. J. Heffner, Superintendent, Centralia; John Meredith, Miner, Ashland; James Price, Miner, Ashland.

The following persons passed a satisfactory examination and were granted certificates:

Mine Foremen

William H. Thomas, Thomas Balliett, Gilberton; Martin Wilson, Ashland; Mathew J. Francis, Mahanoy Plane; Dennis McGuire, St. Nicholas; Nick Miller, Fred Schreffler, Jr., John H. Little, Mount Carmel.

Assistant Mine Foremen

George Moyer, Locust Dale; John J. Flanagan, Richard F. Scanlan, George Kramer, Ashland; Henry Felker, Jacob H. Betz, Philip Cress, Locust Gap; John Flynn, Nicholas A. Wills, Centralia; William Walter Reed, Mount Carmel; Frank Oestreich, Big Mine Run; Evan L. Jones, Gilberton; Oliver David Houser, Rufus Richards, Harry N. Foulk, Frackville.

1919

TWENTY-THIRD DISTRICT

Northumberland County

B. I. Evans, Inspector, Mount Carmel

SUMMARY OF STATISTICS

Collieries in operation (breakers),	10
Washeries in operation,	2
Mines in district,	22
Gaseous mines in operation,	9
Non-gaseous mines in operation,	13
Tons of coal shipped to market,	2,235,450
Tons used at mines for steam and heat,	384,117
Tons sold to local trade and used by employes,	42,232
Tons produced (gross),	2,661,799
Persons employed inside,	3,689
Persons employed outside,	1,881
Persons employed inside between 16 and 21 years,	291
Persons employed outside between 14 and 21 years,	603
Fatal accidents inside,	16
Fatal accidents outside,	5
Serious non-fatal accidents inside,	22
Serious non-fatal accidents outside,	9
Tons produced per fatal accident inside,	166,362
Tons produced per fatal accident inside and outside,	126,752
Persons employed per fatal accident inside,	230
Persons employed per fatal accident outside,	376
Persons employed per fatal accident inside and outside,	265
Persons employed per non-fatal accident inside,	167
Persons employed per non-fatal accident outside,	209
Persons employed per non-fatal accident inside and outside,	179
Wives made widows,	15
Children made orphans,	51
Steam locomotives outside,	18
Compressed air locomotive inside,	1
Electric motors inside,	30
Gasoline locomotives outside,	2
Tubular boilers,	119
Steam engines of all classes,	262
Electric dynamos,	39
Pumps of all classes,	156
Pumps delivering water to surface,	39
Air compressors,	11
Fans in use,	29

TABLE A

Production of Coal

Operators	Gross Tons
Susquehanna Collieries Company,	1,066,390
Philadelphia and Reading Coal and Iron Company,	672,137
Colonial Colliery Company,	273,104
Greenough Red Ash Coal Company,	203,849
Excelsior Coal Company,	191,150
Enterprise Coal Company,	180,946
Shamokin Red Ash Coal Company,	74,223
Total,	2,661,799

Production by Counties

Northumberland,	2,661,799

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Susquehanna Collieries Co.,	14	2	16	12	4	16	76,172	88,860	1,510	756	2,266	108	378	126	189
Philadelphia and Reading Coal and Iron Co.,	2	1	3	6	1	7	336,069	112,023	1,033	371	1,404	517	371	172	371
Colonial Colliery Co.,		1	1						336	220	556		220		
Greenough Red Ash Coal Co.,				2		2		101,924	296	181	477			148	
Excelsior Coal Co.,		1	1						187	123	310		123		
Enterprise Coal Co.,				2	4	6		90,473	327	175	502			164	44
Shamokin Red Ash Coal Co.,										55	55				
Totals and averages,	16	5	21	22	9	31	166,362	120,991	3,689	1,881	5,570	230	376	179	209

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Susquehanna Collieries Co.						
Pennsylvania,	Northumberland	Robert A. Quin,	Wilkes-Barre,	D. V. Randall,	Shamokin,	Pennsylvania
Richards,						
Scott,						
Hickory Ridge,						
Hickory Ridge Washery,						
Philadelphia and Reading Coal and Iron Co.						
Alaska,	Northumberland	George B. Hadesty,	Pottsville,	W. A. Seitzinger,	Mount Carmel,	P. & R.
Reliance,						
Colonial Colliery Co.						
Natalie,	Northumberland,	T. R. Jones,	Frackville,	G. J. Jones,	Mount Carmel,	P. & R.
Greenough Red Ash Coal Co.						
Greenough,	Northumberland,	T. R. Jones,	Frackville,	G. J. Jones,	Mount Carmel,	Pennsylvania
Excelsior Coal Co.						
Corbin,	Northumberland,	G. W. Robertson,	Shamokin,	J. P. Reighard,	Shamokin,	P. & R.
Enterprise Coal Co.						
Enterprise,	Northumberland,	W. L. Connell,	Scranton,			P. & R.
Shamokin Red Ash Coal Co.						
Evans Washery,	Northumberland,	D. H. McGee,	Shamokin,	S. E. McGee,	Mount Carmel,	Pennsylvania

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives
Susquehanna Collieries Co.												
Pennsylvania,	Northumberland	363,060	48,071	5,641	416,772	268	722	8	8	5,975	22,395	171,193
Richards,	Northumberland	241,702	53,667	43	295,412	275	627	5	4	75	51,304	123,357
Scott,	Northumberland	214,993	36,483	4,741	256,217	269	601	2	2	2,525	28,872	142,115
Hickory Ridge,	Northumberland	22,481	18,765	201	41,447	95	293	1	2	2,749	6,327	8,503
	Northumberland	842,236	156,986	10,626	1,009,848	--------	2,243	16	16	11,324	108,898	445,168
Hickory Ridge Washery,	Northumberland	35,110	21,432	----------	56,542	205	23	--------	--------	----------	----------	----------
Totals,	Northumberland	877,346	178,418	10,626	1,066,390	--------	2,266	16	16	11,324	108,898	445,168
Philadelphia and Reading Coal and Iron Co.												
Alaska,	Northumberland	320,610	34,903	88	355,601	277	787	1	6	350	225,059	14,175
Reliance,	Northumberland	252,342	39,649	24,545	316,536	277	617	2	1	50	142,605	121,350
Totals,	Northumberland	572,952	74,552	24,633	672,137	--------	1,404	3	7	400	367,664	135,525
Colonial Colliery Co.												
Natalie,	Northumberland,	243,719	28,967	418	273,104	268	556	1	--------	----------	123,300	74,750
Greenough Red Ash Coal Co.												
Greenough,	Northumberland,	168,414	29,930	5,505	203,849	271	477	--------	2	2,250	28,600	25,000
Excelsior Coal Co.												
Corbin,	Northumberland,	175,460	15,000	690	191,150	264	310	1	--------	73,000	17,000	12,000
Enterprise Coal Co.												
Enterprise,	Northumberland,	125,836	54,750	360	180,946	272	502	--------	6	73,200	6,750	29,500
Shamokin Red Ash Coal Co.												
Evans Washery,	Northumberland,	71,723	2,500	----------	74,223	202	55	--------	--------	----------	----------	----------
Grand totals,		2,235,450	384,117	42,232	2,661,799	--------	5,570	21	31	160,174	655,212	721,943

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical Tubular				Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Susquehanna Collieries Co.	Northumberland,	----	--------	60	7,923	149	9,620	----	--------	9	1,595	85	16,471	20	12,680	167	----	7	----	18	3	2,846
Philadelphia and Reading Coal and Iron Co.,		----	--------	26	3,950	70	7,082	----	--------	4	545	41	35,125	8	4,003	124	----	2	1	5	3	5,554
Colonial Colliery Co.,		----	--------	4	1,000	5	600	----	--------	21	1,169	2	4,000	2	4,000	55	1	5	----	3	3	2,000
Greenough Red Ash Coal Co.,		----	--------	11	1,625	14	1,600	----	--------	2	201	14	6,650	5	1,200	54	1	----	----	----	1	550
Excelsior Coal Co.,		----	--------	6	850	15	475	----	--------	----	--------	8	610	2	470	47	----	4	----	----	----	--------
Enterprise Coal Co.,		----	--------	10	2,500	8	713	----	--------	3	260	6	9,540	2	9,540	46	----	----	----	4	1	2,450
Shamokin Red Ash Coal Co.		----	--------	2	300	1	100	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Totals,		----	--------	119	18,148	262	20,190	----	--------	39	3,770	156	72,396	39	32,983	493	2	18	1	30	11	13,200

TABLE 3.—PART 1—Number of each class of employes inside and outside.

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Susquehanna Collieries Co.,	Northumberland	4	10	28	825	59	------	------	20	23	75	28	28	62	22	3	15	308	1,510
Philadelphia and Reading Coal and Iron Co.,	Northumberland	3	16	------	566	85	------	------	4	------	80	9	19	7	11	------	13	220	1,033
Colonial Colliery Co.,	Northumberland	5	------	2	190	21	------	------	4	4	22	6	8	12	5	------	1	56	336
Greenough Red Ash Coal Co.,	Northumberland	4	4	------	165	20	------	------	------	------	25	2	5	4	11	1	1	54	2 6
Excelsior Coal Co.,	Northumberland	1	3	3	127	10	------	------	------	------	23	2	2	9	2	------	------	5	187
Enterprise Coal Co.,	Northumberland	1	3	------	185	14	------	------	8	1	33	4	4	15	15	4	------	40	327
Shamokin Red Ash Coal Co.,	Northumberland																		
Totals,		18	36	33	2,058	209	------	------	36	28	258	51	66	109	66	8	30	683	3,689

TABLE 3.—PART 1—Number of each class of employes inside and outside—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Susquehanna Collieries Co.,	Northumberland	1	5	17	24	150	23	10	118	46	41	321	756	2,206
Philadelphia and Reading Coal and Iron Co.,	Northumberland	--------	2	4	19	48	2	4	32	24	12	224	371	1,404
Colonial Colliery Co.,	Northumberland	--------	1	4	14	23	8	6	16	11	2	135	220	556
Greenough Red Ash Coal Co.,	Northumberland	1	1	2	5	25	3	1	42	1	3	97	181	477
Excelsior Coal Co.,	Northumberland	1	1	2	6	16	2	1	10	7	2	75	123	310
Enterprise Coal Co.,	Northumberland	1	1	3	8	33	2	1	45	6	5	70	175	502
Shamokin Red Ash Coal Co.,	Northumberland	1	1	1	--------	3	--------	1	12	--------	1	35	55	55
Totals,	--------	5	12	33	76	298	40	24	275	95	66	957	1,881	5,570

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Susquehanna Collieries Co.,	Northumberland,	19	17	17	20	19	17	19	21	20	20	20	18	227
Philadelphia and Reading Coal and Iron Co.,		26	18	15	22	25	25	26	24	24	25	23	24	277
Colonial Colliery Co.,		26	12	12	23	25	24	25	24	24	23	23	24	268
Greenough Red Ash Coal Co.,		25	13	16	23	25	23	25	25	25	26	21	24	271
Excelsior Coal Co.,		22	22	22	22	22	22	22	21	23	22	23	21	264
Enterprise Coal Co.,		23	23	23	23	23	23	23	23	22	22	22	22	272

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 3	William Dubluskie,	Lithuanian,	Miner,	26	M.	1	1	Pennsylvania,	Northumberland	Fall of coal at face of gangway—loading a buggy.
25	John Croshef kie,	Russian,	Miner,	44	M.	1		Alaska,		Fall of slate in pillar work.
27	Ambrose Usillo,	Lithuanian,	Miner,	48	M.	1	1	Scott,		Fall of slate at face, caused by explosion of gas at face of gangway.
29	Daniel Weary,	American,	Laborer,	16	S.			Reliance,		Crushed between cars. Outside.
Feb. 26	Joseph Maddi,	Polish,	Miner,	38	S.			Richards,		Burned by explosion of gas in heading.
	Martin Shebeskie,	Lithuanian,	Miner,	46	M.	1	6			Gas was traveling from old workings that had been robbed. Miner lighted cigarette and ignited the gas, burning four men.
March 5	John Paulnock,	American,	Laborer,	18	S.			Hickory Ridge,		Thrown against revolving wheel in breaker when plank broke on which he was standing. Outside.
20	Thomas Motlitus,	Lithuanian,	Miner,	45	M.	1	5	Pennsylvania,		Fall of slate—in pillar work.
	James Furry,	American,	Loco. engineer,	19	S.			Natalie,		Falling under cars while coupling. Outside.
27	John Hess,	American,	Chain thrower,	31	M.	1	4	Corbin,		Falling under car after uncoupling chain. Outside.
May 27	John Covolie,	Polish,	Miner,	47	M.	1	9	Pennsylvania,		Caught between car and brattice at foot of slope.
June 2	Mike Kozma,	Austrian,	Miner,	42	M.	1	3	Richards,		Fall of slate at face.
Aug. 1	Steve Sincavich,	Russian,	Miner,	39	M.	1	5	Pennsylvania,		Fall of slate in pillar work.
	Mike Bednarchick,	Polish,	Miner,	42	M.	1	1			Asphyxiated by white damp in old workings.
4	Harry Alexander,	American,	Fire boss,	33	M.	1	3	Pennsylvania,		Rush of air in gangway from fall in old workings.
Oct. 20	Irvin Bitterman,	American,	Loader,	27	S.			Pennsylvania,		Caught between side hooks of empty cars on gangway.
	John Frockolloski,	Tyrolean,	Miner,	53	M.	1	6			
24	John Butchick,	Russian,	Loader,	54	M.	1	7	Richards,		Fall of slate at face—standing timber.
Dec. 5	Andy Barnoskie,	Polish,	Miner,	43	M.	1		Scott,		Struck by timber of bridge that collapsed. Outside.
24	Joseph Tomcavage,	Polish,	Laborer,	26	S.			Richards,		Flying coal from blast at face of breast.
30	Paul Ductor,	Austrian,	Miner,	49	M.	1		Reliance,		

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 9	Jacob Moyer,	American,	Miner,	35	M.	Hickory Ridge,	Northumberland	Fall of slate from face on gangway.
27	Steve Smetra,	American,	Driver,	20	S.	Enterprise,		Derailed car—riding on side of car. Outside.
7	Wm. Rosget,	Lithuanian,	Miner,	48	S.	Scott,		Burned by explosion of gas at face of gangway.
28	Tony Machrue,	Italian,	Miner's laborer,	31	S.	Reliance,		Fall of slate at face of breast.
	Raymond Polumskie,	American,	Miner's laborer,	21	M.	Alaska,		Fall of top slate at face of breast.
Feb. 21	Joe Borsavage,	American,	Driver,	17	S.	Alaska,		Falling off bumper in front of cars on gangway.
26	Paul Olshefskie,	Lithuanian,	Miner,	31	S.	Richards,		Burned by explosion of gas in monkey heading—struck match.
	George Greeneavage,	Polish,	Miner,	50	M.			
March 7	Tom Chesney,	American,	Engineer,	18	S.	Richards,		Caught in belt while cleaning engine. Outside.
13	Charles Nankeville,	American,	Topman,	18	S.	Hickory Ridge,		Thrown against rail by rope. Stepped over rope while trips were in motion on plane. Outside.
April 12	Anthony Neary,	American,	Miner,	39	S.	Greenough,		Blast—tamping hole with iron bar and struck cap.
16	George Yareavich,	Polish,	Oiler,	15	S.	Enterprise,		Falling down steps in breaker. Outside.
19	Andrew Kashock,	Italian,	Driver,	21	S.	Scott,		Falling under car—stepped on bumper of car.
	Manford Stewart,	American,	Driver,	16	S.	Alaska,		Lifting loaded car on gangway.
May 20	John Fincato,	American,	Laborer,	19	S.	Richards,		Caught between rope and spool. Outside.
21	John Weloski,	American,	Laborer,	19	S.	Enterprise,		Struck by lump of coal that rolled down slope.
July 11	Peter Bubinskie,	Russian,	Miner,	40	M.	Alaska,		Burned by gas in chute—lighted shot with cigarette.
	Peter Rupka,	Russian,	Miner,	40	M.			
30	Lewis Bressler,	American,	Spragger,	18	S.	Pennsylvania,		Run over by car on top of slope. Outside.
31	Nick Brown,	American,	Miner,	25	M.	Pennsylvania,		Fall of slate at face of gangway.
Aug. 23	Nicholas Fiemaca,	Italian,	Blacksmith,	25	S.	Enterprise,		Struck by piece of rivet. Outside.
27	Adam General,	Polish,	Laborer,	58	M.	Enterprise,		Struck by piece of slate that rolled down bank. Outside.
30	August Genesavage,	Polish,	Miner,	48	M.	Enterprise,		Struck by piece of coal at face of gangway—taking down coal.
Sept. 8	Joe Wishanofskie,	Polish,	Miner,	26	S.	Pennsylvania,		Burned by explosion of gas at face of breast—ignited by naked light.
Oct. 1	Lewis Vincenges,	American,	Laborer,	30	S.	Alaska,		Lifting lump of coal on platform. Outside.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Oct. 8	George Foster,	American,	Miner's laborer,	27	M.	Pennsylvania,	Northumberland	Lifting heavy piece of timber.
9	Alex Vedro,	Polish,	Miner,	50	M.	Pennsylvania,		Fall of slate at face of breast.
10	Casper Corancavage,	Polish,	Miner,	50	S.	Pennsylvania,		Fall of slate in chute.
11	Salvador Mirella,	Italian,	Miner,	30	S.	Pennsylvania,		Burned by gas ignited by naked light when he returned to face after firing shot.
21	John Merrock,	Austrian,	Miner,	33	M.	Greenough,		Fall of slate at face of breast.
Nov. 9	Mike Slatko,	Russian,	Miner's laborer,	25	S.	Pennsylvania,		Fall of slate on gangway.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Mount Carmel, May 6 and 7. The Board of Examiners was composed of: B. I. Evans, Mine Inspector; William Auman, Superintendent; Samuel Roberts, Miner; George Lloyd, Miner.

The following persons passed a satisfactory examination and were granted certificates:

Mine Foremen

Phillip Wagner, John Smith, Mount Carmel; John Brennan, Shamokin; George Cleaver, Strong P. O.

Assistant Mine Foremen

Alexander Rohus, Raymond Toy, Edward Muldowney, Daniel Cirnesalini, Michael Manion, John Gallagher, Cornelius Watkins, Mount Carmel; William Hindmarch, Paxinos; John Neibaur, Johnson City.

TWENTY-FOURTH DISTRICT

Northumberland County

P. J. Friel, Inspector, Shamokin

SUMMARY OF STATISTICS

Collieries in operation (breakers),	10
Washeries in operation,	———
Mines in district,	38
Gaseous mines in operation,	22
Non-gaseous mines in operation,	16
Tons of coal shipped to market,	2,328,422
Tons used at mines for steam and heat,	346,654
Tons sold to local trade and used by employes,	84,643
Tons produced (gross),	2,759,719
Persons employed inside,	3,525
Persons employed outside,	1,693
Persons employed inside between 16 and 21 years,	227
Persons employed outside between 14 and 21 years,	456
Fatal accidents inside,	17
Fatal accidents outside,	6
Serious non-fatal accidents inside,	67
Serious non-fatal accidents outside,	10
Tons produced per fatal accident inside,	162,336
Tons produced per fatal accident inside and outside,	119,988
Persons employed per fatal accident inside,	207
Persons employed per fatal accident outside,	282
Persons employed per fatal accident inside and outside,	227
Persons employed per non-fatal accident inside,	53
Persons employed per non-fatal accident outside,	169
Persons employed per non-fatal accident inside and outside,	68
Wives made widows,	17
Children made orphans,	43
Steam locomotives outside,	17
Electric motors inside,	17
Electric motors outside,	6
Gasoline locomotives inside,	2
Tubular boilers,	126
Steam engines of all classes,	311
Electric dynamos,	17
Pumps of all classes,	149
Pumps delivering water to surface,	39
Air compressors,	23
Fans in use,	33
New mines opened,	3
Old mines abandoned,	2

TABLE A

Production of Coal

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company, ..	1,729,249
Susquehanna Collieries Company, ...	524,362
Buck Ridge Coal Mining Company, ...	173,463
Trevorton Colliery Company, ...	159,229
Shipman Koal Company, ...	138,032
Carbon Creek Coal Company.	35,384
Total, ...	2,759,719

Production by Counties

Northumberland, ...	2,759,719

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed p er accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	10	5	15	44	6	50	172,925	39,301	2,238	952	3,190	224	190	51	159
Susquehanna Colliers Co.,	4	------	4	15	4	19	131,091	34,957	546	391	937	137	------	39	98
Buck Ridge Coal Mining Co.,	1	------	1	3	------	3	173,463	57,821	300	100	400	300	------	100	------
Trevorton Colliery Co.,	1	------	1	2	------	2	159,229	79,615	197	65	262	197	------	99	------
Shipman Koal Co.,	1	1	2	3	------	3	138,032	46,011	220	120	340	220	120	73	------
Carbon Creek Coal Co.,	------	------	------	------	------	------	------	------	24	65	89	------	------	------	------
Totals and averages,	17	6	23	67	10	77	162,336	41,189	3,525	1,693	5,218	207	282	53	169

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
North Franklin,	Northumberland,	G. B. Hadesty,	Pottsville,	F. C. Caldwell, Division Supt. John C. Brown, Inside District Supt. J. P. Knapp, Outside District Supt.	Shamokin,	P. & R.
Bear Valley,						
Burnside,						
Stirling,						
Henry Clay,						
Big Mountain,						
Susquehanna Collieries Co.						
Cameron,	Northumberland,	Robert A. Quin,	Wilkes-Barre,	D. V. Randall,	Shamokin,	Pennsylvania,
Luke Fidler,						
Hickory Swamp,*						
Buck Ridge Coal Mining Co.						
Buck Ridge,	Northumberland,	Raymond Lewis,	Shamokin,			Penna.; P. & R.
Trevorton Colliery Co.						
Katherine,	Northumberland,	George H. Jones,	Shamokin,	K. L. Weimer,	Shamokin,	P. & R.
Shipman Koal Co.						
Colbert,	Northumberland,	B. J. James,	Pottsville,	Josiah Rhoades,	Shamokin,	Pennsylvania,
Carbon Creek Coal Co.						
Eureka,	Northumberland,	Robert Lowry,	Shamokin,			P. & R.

*Consolidated with Luke Fidler, May 16, 1919.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
North Franklin,	Northumberland,	388,152	32,703	6,759	427,614	277	732	2	8	78,300	181,869	----------
Bear Valley,		384,017	51,500	1,621	437,138	280	724	5	10	49,400	229,952	----------
Burnside,		391,052	60,336	24,209	475,597	279	686	2	11	76,600	99,312	----------
Stirling,†							258	2	7	74,275	22,332	4,859
Henry Clay,		290,570	63,179	35,151	388,900	279	449	4	7	24,425	30,342	23,587
Big Mountain,††							341	----------	7	33,050	71,720	200
Totals,		1,453,791	207,718	67,740	1,729,249	----------	3,190	15	50	336,050	635,527	28,637
Susquehanna Collieries Co.												
Cameron,	Northumberland,	187,574	44,035	11,791	243,400	276	496	3	12	19,000	20,870	33,375
Luke Fidler,		211,517	37,557	2,472	251,546	270	----------	1	3	12,400	23,408	9,363
Hickory Swamp,*		23,698	5,718	----------	29,416	95*	441	----------	4	1,951	4,490	6,034
Totals,		422,789	87,310	14,263	524,362	----------	937	4	19	33,351	48,768	48,772
Buck Ridge Coal Mining Co.												
Buck Ridge,	Northumberland,	153,215	18,800	1,448	173,463	278	400	1	3	----------	154,350	350
Trevorton Colliery Co.												
Katherine,		150,103	8,626	500	159,229	278	262	1	2	8,750	24,976	17,211
Shipman Koal Co.												
Colbert,		118,399	19,200	434	138,032	260	340	2	3	15,000	59,500	15,500
Carbon Creek Coal Co.												
Eureka,		30,136	5,000	258	35,384	180	89	----------	----------	----------	5,000	----------
Grand totals,		2,328,422	346,654	84,643	2,759,719	----------	5,218	23	77	393,151	928,121	110,470

†Coal prepared at Burnside breaker.
††Coal prepared at Henry Clay breaker.
*Hickory Swamp consolidated with Luke Fidler May 16, 1919.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Northumberland,	----	--------	67	8,300	150	20,468	---	--------	13	2,714	84	58,001	17	6,433	282	----	8	----	20	11	13,730
Susquehanna Collieries Co.,		----	--------	38	4,610	123	8,800	---	--------	3	300	44	16,220	12	2,795	129	----	4	----	3	5	1,380
Buck Ridge Coal Mining Co.,		----	--------	10	1,400	16	850	---	--------	----	--------	10	1,400	3	1,200	33	----	2	----	----	3	800
Trevorton Colliery Co.,		----	--------	3	900	7	450	---	--------	----	--------	5	1,000	4	400	32	1	----	----	----	2	800
Shipman Koal Co.,		----	--------	6	1,200	13	1,100	---	--------	1	120	4	3,720	1	840	33	1	1	----	----	1	300
Carbon Creek Coal Co.,		----	--------	2	300	2	40	---	--------	----	--------	2	900	2	800	1	----	2	----	----	1	110
Totals,	----------	----	--------	126	16,710	311	31,768	--	--------	17	3,134	149	81,241	39	12,468	510	2	17	----	23	23	17,120

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miner's laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Northumberland,	9	51	------	1,142	220	------	------	8	------	122	22	61	108	18	------	23	451	2,238
Susquehanna Collieries Co.,		2	5	11	276	14	------	------	5	5	28	18	8	51	12	1	10	100	546
Buck Ridge Coal Mining Co.,		1	----	7	150	30	------	------	------	------	31	5	5	18	11	------	1	41	300
Trevorton Colliery Co.,		1	1	4	90	11	------	------	1	1	37	4	2	8	4	------	1	32	197
Shipman Koal Co.,		1	1	5	115	18	------	------	2	2	22	4	11	6	7	1	4	21	220
Carbon Creek Coal Co.,		1	1	1	10	7	------	------	------	------	------	------	2	------	2	------	------	------	24
Totals,		15	62	28	1,783	300	------	------	16	8	240	53	89	191	54	2	39	645	3,525

TABLE 3.—PART 1.—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slate pickers (boys)	Slate pickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Northumberland,	--------	4	11	24	101	6	12	63	64	25	642	952	3,190
Susquehanna Collieries Co.,		--------	3	9	11	77	8	3	42	15	16	207	391	937
Buck Ridge Coal Mining Co.,		1	1	2	4	18	2	2	4	3	2	61	100	400
Trevorton Colliery Co.,		1	2	2	4	10	1	1	4	2	5	33	65	262
Shipman Koal Co.,		1	2	3	9	16	6	2	8	6	3	64	120	340
Carbon Creek Coal Co.,		1	2	1	5	10	2	--------	8	--------	1	35	65	89
Totals,		4	14	28	57	232	25	20	129	90	52	1,042	1,653	5,218

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries).												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Northumberland	26	18	15	23	25	24	25	25	24	26	22	26	279
Susquehanna Collieries Co.,	Northumberland	25	16	22	23	24	22	25	24	23	24	21	24	273
Buck Ridge Coal Mining Co.,	Northumberland	25	23	20	22	23	25	22	23	24	25	22	24	278
Trevorton Colliery Co.,	Northumberland	28	16	21	20	25	24	25	25	24	26	21	23	278
Shipman Koal Co.,	Northumberland	24	18	12	22	23	22	22	24	22	26	21	24	260
Carbon Creek Coal Co.,	Northumberland	3	-------	3	3	16	20	24	24	23	24	19	21	180

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 8	Moses Zimmerman,	American,	Laborer,	55	M.	1		Bear Valley,		Engine falling on him—loading on truck. Outside.
Feb. 14	Theodore Boyd,	American,	Conveyor tender,	18	S.			Henry Clay,		Caught on conveyor shaft. Outside.
April 8	George Tobias,	American,	Miner,	45	M.	1	5	Bear Valley,		Fall of roof at face of breast.
15	Joseph Tuchko,	Polish,	Miner,	21	S.			Cameron,		Explosion of gas at face of breast.
	Charles Tuchko,	Polish,	Miner,	31	S.					
30	Peter Zwallick,	Polish,	Miner,	40	M.	1		Bear Valley,		Fall of rock at face of pillar.
May 27	Joseph Sockloskie,	Polish,	Miner,	39	M.	1	7	Colbert,		Knocked down chute—starting battery.
28	Donald Kuhn,	American,	Driver,	18	S.			Buck Ridge,		Caught by cars at foot of slope—chain broke.
June 5	Anthony Banavage,	Polish,	Spragger,	21	S.			Colbert,		Falling under car—spragging. Outside.
9	Henry Heim,	American,	Laborer,	72	M.	1		Burnside,		Caught by railroad car—sanding rails below breaker. Outside.
10	Victor Augustine,	Austrian,	Miner,	36	M.	1		Henry Clay,		Rush of water and coal at face of breast.
20	Frank Grasher,	Polish,	Miner,	30	M.	1		Bear Valley,	Northumberland,	Premature blast at face of gangway—tamping.
26	John Ferrente,	Slavonian,	Miner,	42	M.	1		Stirling,		Fall of slate at face of breast.
	Foster Zeiders,	American,	Miner,	46	M.	1	1	North Franklin,		Caught by flying coal from blast at face of gangway.
July 18	Peter McGinn,	Irish,	Timberman,	45	M.	1	1	Stirling,		Struck by plank on gangway dislodged in taking down top rock.
21	Robert Struchinskie,	Polish,	Miner,	40	M.	1	7	North Franklin,		Fall of slate at face of pillar.
22	Kimber Conrad,	American,	Miner,	31	M.	1	4	Katherine,		Premature blast at face of gangway.
Oct. 2	Stany Buginskie,	Polish,	Miner,	49	M.	1	8	Henry Clay,		Fall of coal at face of pillar.
11	Frank Dormer,	American,	Timberman,	42	M.	1	4	Cameron,		Fall of coal at face of gangway.
15	Dan'l. Gerrity,	American,	Laborer,	23	S.			Henry Clay,		Struck by steam pipe at boiler house. Outside.
21	Henry Wagner,	American,	Carpenter,	41	M	1		Burnside,		Run over by mine cars. Outside.
30	Joseph Horbach,	Hungarian,	Miner,	32	M	1	3	Bear Valley,		Fall of roof at face of heading.
Nov. 22	Freeman Kaseman,	American,	Miner,	33	M	1	3	Luke Fidler,		Fall of roof at face of pillar.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 9	Chas. Slack,	Polish,	Miner,	35	M	Buck Ridge,	Northumberland,	Burned by gas while brushing it out of chute.
	Mike Vesslizer,	Austrian,	Miner,	36	M			
15	Stany Poploskie,	Polish,	Miner,	37	M	Henry Clay,		Fall of coal at face of breast.
21	Paul Blanie,	Slavonian,	Laborer,	52	M	Hickory Swamp,		Falling timber.
	Michael Swatt,	American,	Driver,	17	S	Burnside,		Caught between door frame and mine car.
25	John Grabeskie,	Polish,	Miner,	32	S	Colbert,		Burned by explosion of gas in chute.
31	Peter Hagerty,	American,	Miner,	31	M	Bear Valley,		Fall of rock in tunnel.
Feb. 6	Wallie Lashinskie,	Polish,	Miner,	27	M	Bear Valley,		Fall of top clod at face of chute.
	Mike Pitchkuskie,	Polish,	Miner,	28	M	Burnside,		Fall of coal at face of breast.
18	Joe Kinder,	Lithuanian,	Miner,	37	M	Hickory Swamp,		Burned by explosion of gas in pillar hole.
24	John Gut,	Polish,	Timberman,	27	S	Hickory Swamp,		Fall of rock in heading.
27	Jacob Jalinskie,	Polish,	Miner,	48	M	Luke Fidler,		Fall of top clod at face of work.
	Andrew Grobinskie,	Polish,	Timberman,	58	M	Luke Fidler,		Jumping into mine car.
Mar. 11	Andrew Glassick,	Polish,	Machine runner,	20	S	Henry Clay,		Fall of rock at face of tunnel.
13	John Matscovich,	Polish,	Miner,	54	M	Stirling,		Caught by buggy against prop.
19	Anth. Beas,	Polish,	Miner's laborer,	34	M	Burnside,		Fall of coal at face of gangway.
April 11	John Mu'hall,	American,	Miner,	40	M	Big Mountain,		Fall of rock at face of gangway
12	Thos. Chocker,	Russian,	Laborer,	60	M	Big Mountain,		Eye injured—struck by piece of rock.
14	And. Pomponia,	Italian,	Loader,	18	S	Burnside,		Caught between buggy and top of gangway.
23	John Pertoskie,	Polish,	Miner,	51	M	North Franklin,		Fall of coal at face of breast.
May 2	Irwin Wheary,	American,	Miner,	41	M	Burnside,		Fall of rock at face of work.
19	John Gragala,	Russian,	Miner's laborer,	55	M	Stirling,		Loading mine car in gangway—lifting.
June 14	W. S. Henninger,	American,	Miner,	46	M	Burnside,		Fall of rock at face of robbing.
20	Harry Shemelskie,	Polish,	Miner,	30	M	Bear Valley,		Premature explosion of dynamite near face of gangway.
28	Julius Kublic,	German,	Watchman,	65	S	Hickory Swamp,		Kicked by mule. Outside.
30	Thos. Thew,	American,	Carpenter,	26	M	Burnside,		Injured while blocking up boiler in boiler house. Outside.
July 2	Stany Jelinskie,	Polish,	Miner,	41	M	Henry Clay,		Fall of top slate, while removing old brattice.
5	Jos. Cobalskie,	American,	Topman,	19	S	Bear Valley,		Caught under car wheel while spragging.
10	Chas. Miller,	American,	Miner,	45	M	Bear Valley,		Fall of top clod at face of robbing.
15	John Yocum,	American,	Carpenter,	45	M	Cameron,		Falling through floor in breaker. Outside.
19	Robert Yeager,	American,	Driver,	46	S	Bear Valley,		Caught between mule and rib of gangway.
30	Wm. Stevitskie,	Polish,	Miner,	24	S	Cameron,		Fall of top clod at face of breast.

TABLE 5.—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Aug. 5	Sam Colonoskie,	American,	Miner,	20	S	Big Mountain,		Burned by explosion of gas in chute and heading.
	John Colonoskie,	Polish,	Miner,	52	M			
6	Frank Karmalovage,	Polish,	Miner,	52	M	Stirling,		Explosion of dynamite near face of breast.
	Wm. Jenovitch,	Polish,	Miner,	45	M	Stirling,		Burned by explosion of gas at face of breast.
8	Steve Popovich,	Hungarian,	Miner,	33	M	Stirling,		Fall of top slate near face of work.
11	Frank Gabriel,	Polish,	Miner,	64	M	Burnside,		Fall of top at face of breast.
21	John Lagerman,	American,	Miner,	33	M	North Franklin,		Caught between mine cars on gangway.
Sept. 2	Jos. Combretti,	Italian,	Miner,	36	M	North Franklin,		Lifting coal into mine car.
12	Frank Masavage,	Polish,	Miner,	49	M	Big Mountain,		Falling timber on gangway.
13	John Kurtz,	American,	Loader,	25	M	North Franklin,		Caught between mine car and gangway timber.
	Wm. Renn,	American,	Driver,	24	S	Cameron,		Struck by reel of rope. Outside.
19	Stany Sockoloskie,	Polish,	Driver,	19	S	Luke Fidler,		Caught between mine cars.
22	Stany Waldron,	American,	Runner,	42	S	Big Mountain,		Crushed between chain and car hook.
24	Bartley Merchock,	Austrian,	Miner's laborer,	46	M	Bear Valley,		Delayed blast at face of gangway.
Oct. 2	Wilbur Dick,	American,	Carpenter,	23	M	Henry Clay,	Northumberland,	Lifting timber. Outside.
23	Adam Bonsheck,	Polish,	Miner's laborer,	21	M	Cameron,		Fall of rock at face of tunnel.
24	Filmore Fry,	American,	Timber cutter,	61	M	Cameron,		Struck by stick of timber flying from power saw. Outside.
25	Frank Henninger,	American,	Miner's laborer,	40	S	Burnside,		Fall of rock at face of gangway.
28	Dom. Martinie,	Italian,	Laborer,	24	S	Bear Valley,		Sprained while pulling on jack. Outside.
	Mike Augustine,	Polish,	Miner,	22	M	Cameron,		Burned by explosion of gas at face of breast.
	Danl. Bartel,	Polish,	Driver,	18	S	Colbert,		Struck by mine car.
30	Stany Stelmach,	Polish,	Miner,	54	M	Stirling,		Struck by piece of coal from pick.
31	Uriah Thomas,	American,	Miner,	52	M	North Franklin,		Fall of coal at face of breast.
Nov. 5	Samuel Williams,	American,	Miner,	36	M	North Franklin,		Fall of coal on gangway.
12	Theo. Swatkuskie,	Polish,	Miner's laborer,	42	M	North Franklin,		Caught between mine car and rib of tunnel.
	John Check,	Polish,	Miner,	30	M	Bear Valley,		Falling while timbering gangway.
13	Ben. Long,	American,	Miner,	61	M	Big Mountain,		Falling down manway.
14	Tofy Knewskie,	Polish,	Miner,	22	S	Buck Ridge,		Struck by fall of coal at face of chute.
20	Frank Humphreys,	American,	Bottomman,	30	S	Cameron,		Struck by derailed mine car.
22	John Drill,	American,	Pumpman,	29	S	Henry Clay,		Struck by mine car. Outside.
24	John A. Smith,	American,	Loader,	21	S	Katherine,		Fall of rock on gangway.
28	Frank Drumheller,	American,	Miner,	35	M	Katherine,		Fall of top slate at face of breast.
Dec. 4	John Moshinskie,	Polish,	Miner,	37	M	Henry Clay,		Fall of top slate at face of breast.

Dec.	9	Anth. Konopic,	Austrian,	Miner,	33	M	Bear Valley,			Caught between mine cars.
	11	Oscar Lutinskie,	Polish,	Miner,	48	S	Cameron,			Delayed blast at face of breast.
	12	Frank Stancavage,	Polish,	Miner,	60	M	Cameron,			Premature blast.
	13	Wm. Frye,	American,	Miner's laborer,	35	M	Colbert,			Fall of top clod at face of gangway
		Ed. Rubendall,	American,	Miner,	38	M	Burnside,			Fall of coal at face of breast.
	15	Geo. F. Klase,	American,	Repairman,	37	M	North Franklin,	Northumberland,		Machinery—putting rope on drive wheel. Outside.
		Henry Miller,	American,	Roadman,	77	M	Cameron,			Caught between mine cars on gangway.
	16	John Marchinick,	Slavonian,	Miner,	46	M	Stirling,			Fall of coal at face of breast.
	19	Chas. Soberta,	Polish,	Miner,	26	S	Henry Clay,			Burned by explosion of gas at face of breast.
	20	Frank Leaguskie,	Polish,	Miner's laborer,	26	M	Cameron,			Struck by lump of coal at chute.
	23	Richard Collins,	American,	Doorboy,	17	S	Cameron,			Struck by piece of rock that fell from rib.
	29	John Neary,	American,	Roadman,	54	S	Burnside,			Struck by handle of jack. Outside.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Shamokin, May 6 and 7. The Board of Examiners was composed of P. J. Friel, Mine Inspector, Shamokin; Edward Brennan, Superintendent, Shamokin; Alexander J. Bradley, Miner, Shamokin; Nicholas Davis, Miner, Shamokin.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Thomas Holleran, Michael J. Purcell, Shamokin; John Gilchrist, Trevorton.

ASSISTANT MINE FOREMEN

John Cleary, Daniel Kelley, Jr., Thomas Hester, Roland M. Culton, Shamokin; Dominick Bridi, John Stackowitz, William Swinehart, Joseph T. Smith, Clayton Swinehart, William Sullivan, Dennis Fitzpatrick, Frank Braubitz, Homer Wolf, Trevorton; Walter Rutkofsky, James H. Madden, Ranshaw.

1919

TWENTY-FIFTH DISTRICT

Schuylkill and Dauphin Counties

Charles J. Price, Inspector, Lykens

SUMMARY OF STATISTICS

Collieries in operation (breakers),	7
Washeries in operation,	4
Mines in district,	33
Gaseous mines in operation,	22
Non-gaseous mines in operation,	11
Tons of coal shipped to market,	1,399,104
Tons used at mines for steam and heat,	402,209
Tons sold to local trade and used by employes,	47,816
Tons produced (gross),	1,849,129
Persons employed inside,	3,602
Persons employed outside,	1,647
Persons employed inside between 16 and 21 years,	369
Persons employed outside between 14 and 21 years,	467
Fatal accidents inside,	21
Fatal accidents outside,	4
Serious non-fatal accidents inside,	74
Serious non-fatal accidents outside,	30
Tons produced per fatal accident inside,	88,054
Tons produced per fatal accident inside and outside,	73,965
Persons employed per fatal accident inside,	172
Persons employed per fatal accident outside,	412
Persons employed per fatal accident inside and outside,	210
Persons employed per non-fatal accident inside,	49
Persons employed per non-fatal accident outside,	55
Persons employed per non-fatal accident inside and outside,	50
Wives made widows,	12
Children made orphans,	40
Steam locomotives outside,	26
Compressed air locomotives inside,	4
Electric motors inside,	29
Electric motors outside,	4
Cylindrical boilers,	5
Tubular boilers,	166
Steam engines of all classes,	300
Electric dynamos,	21
Pumps of all classes,	141
Pumps delivering water to surface,	17
Air compressors,	24
Mines abandoned,	1

TABLE A.

Production of Coal

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company, ...	1,076,418
Susquehanna Collieries Company, ...	756,689
Lehigh Valley Coal Company, ...	16,022
Total, ...	1,849,129

Production by Counties

Schuylkill, ...	1,092,440
Dauphin, ...	756,689
Total, ...	1,849,129

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside. number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	14	3	17	37	19	56	76,787	29,092	2,261	931	3,132	157	310	59	49
Susquehanna Collieries Co.,	7	1	8	37	11	48	108,098	20,471	1,156	615	1,771	165	615	31	56
Lehigh Valley Coal Co.,	------	------	------	------	------	------	------	------	245	101	346	------	------	------	------
Totals and averages,	21	4	25	74	30	104	88,054	21,988	3,602	1,647	5,249	172	412	49	55

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co. Lincoln, Brookside, Good Spring, Valley View, Tower City, Middle Creek, Washeries Rausch Creek, Lincoln,	Schuylkill,	E. E. Kaercher,	Pottsville,	M. J. Doyle, Division Supt. R. J. Schroeder, Inside District Supt. Joseph H. Lee, Outside District Supt.	Tremont,	P. & R.
Susquehanna Collieries Co. Williamstown, Short Mountain, Williamstown Washery, Short Mountain Washery,	Dauphin,	Robert A. Quin,	Wilkes-Barre,	Edward A. Vanhorn,	Lykens,	Pennsylvania.
Lehigh Valley Coal Co. Blackwood, *	Schuylkill,	Thomas P. Thomas,	Wilkes-Barre,	C. M. Mortimer,	Blackwood,	Lehigh Valley.

*Abandoned in March.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Lincoln,	Schuylkill,	979,627	75,952	6,400	361,979	271	1,054	3	16	6,025	95,997	14,775
Brookside,	Schuylkill,	274,027	39,285	5,142	318,454	285	971	6	17	975	155,469	50
Good Spring,	Schuylkill,	225,288	67,985	7,125	300,398	278	550	7	19	----------	124,785	14,024
Valley View, *	Schuylkill,	369	--------	696	1,065	7	*99	--------	--------	----------	3,813	500
Tower City, **	Schuylkill,	4,183	----------	374	4,557	26	**191	--------	--------	----------	48,500	50
Middle Creek,	Schuylkill,	49,377	3,243	9	52,629	95	257	1	4	----------	9,118	----------
		832,871	186,465	19,746	1,039,082	--------	3,122	17	56	7,000	437,682	29,399
Washeries												
Rausch Creek,	Schuylkill,	11,147	3,302	----------	14,449	45	10	--------	--------	----------	470	50
Lincoln, †	Schuylkill,	22,887			22,887	54	†	--------	--------	----------	50	50
		34,034	3,302	----------	37,336	--------	10	--------	--------	----------	520	100
Totals,		866,905	189,767	19,746	1,076,418	--------	3,132	17	56	7,000	438,202	29,499
Susquehanna Collieries Co.												
Williamstown,	Dauphin,	249,602	23,334	6,276	279,212	276	851	5	20	----------	86,325	133,659
Short Mountain,	Dauphin,	259,325	82,493	21,476	363,294	277	868	3	28	8,300	127,890	69,472
		508,927	105,827	27,752	642,506	--------	1,719	8	48	8,300	214,215	203,131
Washeries												
Williamstown,	Dauphin,	947	102,118	----------	103,065	388	31	--------	--------	----------	----------	----------
Short Mountain,	Dauphin,	10,505	613	----------	11,118	52	21	--------	--------	----------	----------	----------
		11,452	102,731	----------	114,183	--------	52	--------	--------	----------	----------	----------
Totals,		520,379	208,558	27,752	756,689	--------	1,771	8	48	8,300	214,215	203,131

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Lehigh Valley Coal Co. Blackwood, ***	Schuylkill,	11,820	3,884	318	16,022	30	346				7,495	8,800
Grand totals,		1,399,104	402,209	47,816	1,849,129		5,249	25	104	15,300	659,912	241,430

*Coal prepared at Good Spring breaker.
**Coal prepared at Brookside breaker.
***Abandoned in March.
†Employes included with Lincoln Colliery.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	----	--------	66	9,086	139	26,953	----	--------	14	4,025	77	51,467	8	7,417	307	----	15	4	16	14	12,636
Susquehanna Collieries Co.,	Dauphin,	5	675	95	11,535	161	16,150	----	--------	6	1,780	64	27,000	7	8,609	170	----	8	----	11	8	14,650
Lehigh Valley Coal Co.,	Schuylkill,	----	--------	5	1,500	----	--------	----	--------	1	175	*	--------	2	3,900	13	----	3	----	6	2	2,200
Totals,		5	675	166	22,115	300	43,113	----	--------	21	5,980	141	78,467	17	19,926	490	----	26	4	33	24	29,486

*Not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Philadelphia and Reading Coal and Iron Co.	Schuylkill,	9	56	------	830	219	------	------	------	------	106	88	133	84	3	------	13	660	2,201
Susquehanna Collieries Co.,	Dauphin,	2	9	21	409	63	------	------	7	7	87	9	30	320	32	2	9	149	1,156
Lehigh Valley Coal Co.,	Schuylkill,	1	9	------	152	16	------	------	8	8	2	4	10	8	2	4	2	19	245
Totals,		12	74	21	1,391	298	------	------	15	15	195	101	173	412	37	6	24	828	3,602

TABLE 3.—PART 1.—Continued

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.	Schuylkill,		6	10	40	109	8	8	21	14	14	701	931	3,132
Susquehanna Collieries Co.,	Dauphin,	2	2	10	38	154	26	11	23		12	337	615	1,771
Lehigh Valley Coal Co.,	Schuylkill,		1	4	13	12	2	1	13		4	51	101	346
Totals,		2	9	24	91	275	36	20	57	14	30	1,089	1,647	5,249

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.	Schuylkill,	17	10	9	12	12	12	12	12	12	15	15	22	160
Susquehanna Collieries Co.,	Dauphin,	25	19	16	24	24	25	23	25	23	26	21	26	277
Lehigh Valley Coal Co. ***	Schuylkill,	24	6											30

***Blackwood Colliery abandon d

TABLE 4.—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 15	Charles O. Barry,	American,	Fire boss,	35	M.	1	5	Williamstown,	Dauphin,	Rush of coal, water and debris at face of breast.
21	Oscar Bender,	American,	Repairman,	48	M.	1	4	Brook ide,	Schuylkill,	Struck by timber on gangway.
23	Frank Eisenerachcr,	American,	Timberman,	25	M	1	1	Brook ide,	Schuylkill,	Fall of coal at face of gangway.
Feb. 8	Edward Woomer,	American,	Loader,	17	S.			Williamstown,	Dauphin,	Run over by railroad cars. Outside.
April 4	Harvey Brown,	American,	Driver,	21	S.			Brook ide,	Schuylkill,	Caught between cars on gangway.
9	George Leavick,	Austrian,	Machine runner,	38	M.	1	3	Williamstown,	Dauphin,	Premature blast at face of tunnel.
23	Irvin Berger,	American,	Miner,	37	W.			Lincoln,	Schuylkill,	Fall of slate at face of gangway.
24	George Moose,	American,	Laborer,	65	M.	1		Lincoln,	Schuylkill,	Caught between cars at bottom of slope.
ay 7	William Houtz,	American,	Miner,	39	M.	1	1	Short Mountain	Dauphin,	Fall of coal at face of gangway.
ly 24	William G. R. Boyer,	American,	Starter,	25	S.			Brookside,	Schuylkill,	Falling down slope.
ug. 21	John Dodds,	American,	Laborer,	25	W.		2	Lincoln,	Schuylkill,	Cru hed between cars. Outside.
ept. 20	Samuel Demilko,	Austrian,	Miner,	22	S.			Brookside,	Schuylkill,	Falling down manway.
ct. 18	Joseph Hendler,	American,	Conductor,	18	S.			Middle Creek,	Schuylkill,	Caught between cars. Outside.
23	H. A. Kemble,	American,	Miner's laborer,	63	M.	1		Short Mountain	Dauphin,	Fall of roof on gangway—retimbering.
30	William Kehler,	American,	Miner,	48	M.	1	13			
	Albert Kehler,	American,	Miner's laborer,	18	S.					
	Walter Morgans,	American,	Miner's laborer,	17	S.			Good Spring,	Schuylkill,	Burned by explosion of gas. It is supposed that gas from shot in heading backed down in tunnel where these men were standing.
	Joseph Stutzman,	American,	Miner,	29	M.	1	3			
Nov. 5	Joseph Cavanaugh,	American,	Loader,	18	S.			Good Spring,	Schuylkill,	Rush of coal from chute—loading car on gangway.
Dec. 5	George Deitz,	American,	Repairman,	47	S.			Good Spring,	Schuylkill,	Fall of slate in heading.
	Charles Freeman,	American,	Repairman,	25	S.					
10	John M. Williams,	Welsh,	Miner,	39	M.	1	2	Short Mountain	Dauphin,	Fall of slate at face of pillar.
20	Joseph Berrie,	American,	Jig runner,	16	S.			Brook ide,	Schuylkill,	Caught in machinery in breaker. Outside.
24	Arthur McNeal,	American,	Starter,	29	M.	1	1	Williamstown,	Dauphin,	Fall of slate in heading.
29	Edward C. Donley,	American,	Fire boss,	40	M.	1	5	Williamstown,	Dauphin,	Blast at face of heading.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 8	Clyde Erdman,	American,	Laborer,	19	S.	Brookside,	Schuylkill,	Caught between sprag and wheel of car. Outside.
9	Thomas Fitzpatrick.	American,	Pumpman,	40	M.	Lincoln,	Schuylkill,	Caught in gear-wheel of pump.
16	Harry Fetterhoff,	American,	Driver,	20	M.	Brookside,	Schuylkill,	Caught between cars on gangway.
17	Harry Rupp, Sr.,	American,	Miner,	47	W.	Lincoln,	Schuylkill,	Caught between car and chute on gangway.
	Edward Minnick,	American,	Driver,	20	M.	Short Mountain,	Dauphin,	Kicked by mule on gangway.
18	Peter Huntzinger,	American,	Miner's laborer,	32	M.	Good Spring,	Schuylkill,	Struck by piece of coal—cleaning rail on gangway.
21	Robert Whitcomb,	American,	Laborer,	16	S.	Williamstown,	Dauphin,	Struck by piece of coal from chute. Outside.
24	Charles S. Zimmerman,	American,	Miner,	40	M.	Williamstown,	Dauphin,	Struck by drill at face of breast.
30	Steve Grim,	American,	Repairman,	19	S.	Brookside,	Schuylkill,	Falling down rock bank. Outside.
Feb. 3	Edward Yeager,	American,	Repairman,	47	M.	Williamstown,	Dauphin,	Caught in blades of blower fan. Outside.
7	Elmer Bonewitz,	American,	Runner,	17	S.	Lincoln,	Schuylkill,	Caught between car and timber. Outside.
17	Martin Zarnskie,	Hungarian,	Slatepicker,	47	M.	Brookside,	Schuylkill,	Struck by piece of rock in chute. Outside.
	Josiah Fessler,	American,	Miner's laborer,	36	M.	Lincoln,	Schuylkill,	Lifting car on gangway.
21	Harry Eckler,	American,	Miner,	28	M.	Good Spring,	Schuylkill,	Burned by gas in chute—ignited with naked light.
24	Charles Baker,	American,	Miner,	41	W.	Short Mountain,	Dauphin,	Falling on gangway.
25	Paul Hile,	American,	Runner,	16	S.	Brookside,	Schuylkill,	Wheel of car ran over hand. Outside.
26	Lester Klinger,	American,	Miner's laborer,	20	S.	Short Mountain,	Dauphin,	Fall of slate on gangway.
28	Raymond Hatter,	American,	Miner,	33	M.	Williamstown,	Dauphin,	Fall of coal at face of heading.
March 3	William H. Smith,	American,	Fire bo s,	36	M.	Williamstown,	Dauphin,	Struck by timber—standing timber at face.
5	Adam Koppenhaver,	American,	Fireman,	50	M.	Short Mountain,	Dauphin,	Caught between bumpers of cars. Outside.
7	William E. Harman,	American,	Timberman,	56	M.	Short Mountain,	Dauphin,	Struck by timber—setting timber on gangway.
	Samuel Byerly,	American,	Miner,	50	M.	Short Mountain,	Dauphin,	Falling down breast.
13	William Cleary,	American,	Miner,	26	S.	Lincoln,	Schuylkill,	Rush of coal knocked him down breast.
19	John Pearson,	American,	Miner,	52	M.	Good Spring,	Schuylkill,	Struck by timber—standing timber on gangway.
24	Ira Morgan,	American,	Driver,	17	S.	Good Spring,	Schuylkill,	Caught between car and top of gangway.
	John Hain,	American,	Laborer,	17	S.	Good Spring,	Schuylkill,	Nail penetrated foot. Outside.

Mar.	25	Emerson Hatter,	American,	Miner,	23	M.	Good Spring,	Schuylkill,	Burned by gas in chute—ignited with naked light.
	31	Frederick Faust,	American,	Miner,	30	M.	Short Mountain,	Dauphin,	Burned by gas in breast.
		Cornelius Hawk,	American,	Miner,	50	M.			
April	2	James Hoffman,	American,	Laborer,	58	M.	Short Mountain,		Falling from railroad car. Outside.
	9	Paul Cotinak,	Slavonian,	Chargeman,	26	M.	Williamstown,	Dauphin,	Premature blast at face.
	14	Joseph Fessler,	American,	Miner's laborer,	36	M.	Lincoln,	Dauphin,	Caught between car and top of gangway.
	16	Frederick Kopp,	American,	Repairman,	52	M.	Brookside,	Schuylkill,	Struck by collar—taking old set of timber out of gangway.
		Christ Hopstetter,	American,	Miner,	34	M.	Good Spring,	Schuylkill,	Burned by gas in chute—ignited with naked light.
	17	Nathan Sattizahn,	American,	Loader,	62	M.	Lincoln,	Schuylkill,	Falling against rail when plank broke on which he was standing on gangway.
	21	Edward Knecht,	American,	Laborer,	48	S.	Brookside,	Schuylkill,	Falling against platform. Outside.
		James Ehrhart,	American,	Miner,	55	M.	Lincoln,	Schuylkill,	Fall of coal on gangway.
	25	Samuel Swiadek,	Polish,	Miner,	35	S.	Williamstown,	Dauphin,	Fall of coal at face of breast.
May	13	Joseph Bobroskey,	Polish,	Miner,	40	M.	Williamstown,	Dauphin,	Fall of coal at face of breast.
	14	Lewis James,	American,	Miner,	47	S.	Short Mountain,	Dauphin,	Falling under cars on gangway.
	16	Arthur Williard,	American,	Engineer,	33	M.	Good Spring,	Schuylkill,	Caught between car and locomotive. Outside.
	17	William G. Williams,	Welsh,	Laborer,	67	M.	Williamstown,	Dauphin,	Falling in timber yard. Outside.
	19	Frank Fisher,	American,	Miner,	44	M.	Lincoln,	Schuylkill,	Fall of slate in manway.
	20	Charles Morgan,	American,	Driver,	18	S.	Good Spring,	Schuylkill,	Nail penetrated foot—jumped off car on gangway.
		Lyman Stoke,	American,	Topman,	23	M.	Lincoln,	Schuylkill,	Struck by piece of coal that fell from car at top of slope.
	23	John Johnson,	American,	Machine helper,	42	S.	Good Spring,	Schuylkill,	Stepped on nail in tunnel.
		Reiley Koppenhaver,	American,	Loader,	28	M.	Good Spring,	Schuylkill,	Struck hand against window-pane in washhouse. Outside.
	28	Harry Wetzel,	American,	Laborer,	27	M.	Good Spring,	Schuylkill,	Fall of slate on slope.
June	3	Wilson Myers,	American,	Topman,	18	S.	Williamstown,	Dauphin,	Caught between bumpers of cars. Outside.
	5	Ray Bohr,	American,	Driver,	18	S.	Lincoln,	Schuylkill,	Rush of coal in chute.
	10	Edward Landenslager,	American,	Miner,	38	M.	Short Mountain,	Dauphin,	Struck by buggy—on gangway—dumping.
	12	Allen Fetterhoff,	American,	Laborer,	16	S.	Good Spring,	Schuylkill,	Caught between bar and door of car. Outside.
	16	Vincent Himmel,	Polish,	Miner,	36	S.	Brookside,	Schuylkill,	Falling while standing timber in breast.
	17	William Messner,	American,	Runner,	24	M.	Brookside,	Schuylkill,	Caught between chain and side hook of car at bottom of slope.
	18	Andrew Dodd,	American,	Carpenter,	41	M.	Short Mountain,	Dauphin,	Car wheel falling on finger while putting it on axle. Outside.
	20	George Fetterhoff,	American,	Miner,	39	M.	Brookside,	Schuylkill,	Fall of slate at face of breast.
		Claude Hatter,	American,	Laborer,	21	S.	Good Spring,	Schuylkill,	Struck by flying bolt at boiler house. Outside.
		Daniel Bates,	American,	Miner,	54	M.	Brookside,	Schuylkill,	Falling down chute.
	21	Thomas Doyle,	American,	Timberman,	73	M.	Williamstown,	Dauphin,	Fall of rock on gangway.
	25	William Ney,	American,	Repairman,	28	M.	Brookside,	Schuylkill,	Falling in breaker. Outside.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
June 26	Elvin Bixler,	American,	Miner,	29	M.	Good Spring,	Schuylkill,	Burned by gas—went up manway with naked light.
July 1	William Boden,	English,	Miner,	56	M.	Short Mountain,	Dauphin,	Caught by fall of slate in breast.
11	William Froman,	American,	Miner,	34	M.	Williamstown,	Dauphin,	Rush of coal at face of breast.
18	Joseph Mahoney,	American,	Miner,	22	S.	Short Mountain,	Dauphin,	Fall of coal at face of breast.
29	James B. Lawler,	American,	Laborer,	15	S.	Williamstown,	Dauphin,	Falling down steps. Outside.
Aug. 7	Joseph Harman,	American,	Driver,	23	S.	Short Mountain,	Dauphin,	Caught between car and plank on gangway.
8	John H. Shoffstall,	American,	Miner,	56	M.	Short Mountain,	Dauphin,	Fall of slate at face of breast.
11	George Fetterhoff,	American,	Driver,	34	S.	Short Mountain,	Dauphin,	Mule falling on him on gangway.
19	Harry Heinbach,	American,	Miner's laborer,	23	S.	Lincoln,	Schuylkill,	Struck by jack-hammer on gangway.
21	Harry Weiss,	American,	Bottomman,	18	S.	Lincoln,	Schuylkill,	Caught under car at breaker. Outside.
	James Kelley,	American,	Loader,	42	S.	Short Mountain,	Dauphin,	Pushing buggies on gangway—infection.
26	Albert Hoffman,	American,	Miner,	36	M.	Short Mountain,	Dauphin,	Lifting timber.
27	Harry Spancake,	American,	Miner's laborer,	35	M.	Lincoln,	Schuylkill,	Caught between cars and rail on gangway.
30	L. F. Herb,	American,	Carpenter,	30	M.	Good Spring,	Schuylkill,	Caught under crank of hoisting engine. Outside.
	Hiram Bowman,	American,	Miner,	63	M.	Williamstown,	Dauphin,	Fall of coal at face of breast.
Sept. 2	Robert Keesey,	American,	Miner,	33	M.	Lincoln,	Schuylkill,	Struck by flying nail while fastening sheet iron.
13	John B. Warlow,	American,	Driver,	17	S.	Williamstown,	Dauphin,	Squeezed between mule and door on gangway.
15	Charles Engle,	American,	Miner,	35	M.	Short Mountain,	Dauphin,	Fall of coal at face of breast.
19	John Hawk,	American,	Miner,	52	M.	Short Mountain,	Dauphin,	Fall of coal at face of gangway.
23	John Feesig,	American,	Miner,	35	M.	Brookside,	Schuylkill,	Fall of slate at face of breast.
26	George Deitz,	American,	Miner,	45	S.	Good Spring,	Schuylkill,	Knocked down slope by collar.
27	John H. Ney,	American,	Carpenter,	60	M.	Middle Creek,	Schuylkill,	Struck by timber. Outside.
Oct. 2	John Acaley,	American,	Miner,	52	M.	Short Mountain,	Dauphin,	Crush of coal at face of breast.
8	William Androscavage	Lithuanian,	Miner	28	S.	Williamstown,	Dauphin,	Fall of coal at face of breast.
20	William Calnon,	American,	Laborer,	32	S.	Short Mountain,	Dauphin,	Caught between cars at top of shaft. Outside.
22	Frederick Mutchler,	American,	Laborer,	22	S.	Middle Creek,	Schuylkill,	Caught under car wheel. Outside.
	George Hossler,	American,	Teamster,	62	M.	Good Spring,	Schuylkill,	Struck by piece of falling timber. Outside.
23	William F. Harman,	American,	Driver,	28	S.	Short Mountain,	Dauphin,	Falling under car while attempting to get on it on gangway.
25	Charles Mitchell,	American,	Laborer,	25	S.	Middle Creek,	Schuylkill,	Fingers run over by car when he fell. Outside.

Oct.	30	Frank Kilraine,	American,	Timberman,	55	M.	Williamstown,	Dauphin,	Struck by prop while pushing it up manway.
		William Wetzle,	American,	Driver,	23	S.	Good Spring,	Schuylkill,	Burned by explosion of gas at face of gangway.
	31	Isaac O. Dietrich,	American,	Miner,	55	M.	Short Mountain,	Dauphin,	Fall of slate at pillar work.
Nov.	5	Peter Pratalava,	Polish,	Ashman,	23	S.	Williamstown,	Dauphin,	Pushing car of ashes—ruptured. Outside.
		Peter Ludwig,	American,	Timberman,	56	M.	Brookside,	Schuylkill,	Fall of rock—setting timber on gangway.
	12	Theodore Zernheldt,	American,	Driver,	18	S.	Middle Creek,	Schuylkill,	Caught in cogs while turning fan.
	19	George Gwyther,	English,	Driver,	37	S.	Short Mountain,	Dauphin,	Squeezed between mule and rib of gangway.
Dec.	4	John Steiley,	American,	Miner's laborer,	30	M.	Short Mountain,	Dauphin,	Fall of top slate—loading car at face of gangway.
	8	Clarence Evans,	American,	Driver,	18	S.	Brookside,	Schuylkill,	Caught between car and rib in tunnel.
	18	Thomas George,	Italian,	Miner,	58	M.	Williamstown,	Dauphin,	Struck by coal from blast on gangway.
	19	Wilson Lewars,	American,	Laborer,	57	M.	Lincoln,	Schuylkill,	Struck by car. Outside.
	22	Thomas J. Johns,	American,	Jig tender,	18	S.	Williamstown,	Dauphin,	Caught in coal conveyor in breaker. Outside.
	23	Walter Kasputis,	Lithuanian,	Miner,	24	M.	Brookside,	Schuylkill,	Burned by explosion of gas at face of breast.
		Stiney Kasputis,	Lithuanian,	Miner,	30	S.			
	30	Daniel Fritz,	German,	Miner,	54	M.	Short Mountain,	Dauphin,	Fall of coal at face of breast.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Lykens May 6 and 7. The Board of Examiners was composed of Charles J. Price, Mine Inspector; D. V. Randall, Superintendent, Lykens; Samuel Evans, Miner, Minersville and Jacob Felty, Miner, Snedburg.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Edgar Isaiah Artz, Emory David Artz, Lee Earl Morgan, Joliett; Eugene Allen Schreiner, Good Springs; Alfred Palmer Watkins, Tremont.

ASSISTANT MINE FOREMEN

Joseph Cleveland Klouser, John Solomon Schlegel, Valley View; Cyrus Franklin Strauser, Pine Grove; John Henry Scheib, Hegins; George James Warlow, Williamstown; Roy Ernest Thompson, Tower City; John Edward Lebo, Calvin Samuel Reidler, Muir.

1920

FIRST DISTRICT

Lackawanna, Susquehanna, Sullivan and Wayne Counties

Benjamin Maxey, Inspector, Forest City

SUMMARY OF STATISTICS

Collieries in operation (breakers),	16
Washeries in operation,	4
Mines in district,	33
Gaseous mines in operation,	1
Non-gaseous mines in operation,	32
Tons of coal shipped to market,	2,472,100
Tons used at mines for steam and heat,	217,905
Tons sold to local trade and used by employes,	74,116
Tons produced (gross),	2,764,121
Tons produced by electrical machines,	3,590
Persons employed inside,	3,372
Persons employed outside,	1,517
Persons employed inside between 16 and 21 years,	214
Persons employed outside between 14 and 21 years,	200
Fatal accidents inside,	15
Fatal accidents outside,	1
Serious non-fatal accidents inside,	33
Serious non-fatal accidents outside,	11
Tons produced per fatal accident inside,	184,274
Tons produced per fatal accident inside and outside	172,751
Persons employed per fatal accident inside,	225
Persons employed per fatal accident outside,	1,517
Persons employed per fatal accident inside and outside,	306
Persons employed per non-fatal accident inside,	102
Persons employed per non-fatal accident outside,	138
Persons employed per non-fatal accident inside and outside,	111
Wives made widows,	11
Children made orphans,	32
Steam locomotives outside,	22
Electric motors inside,	73
Cylindrical boilers,	6
Tubular boilers,	127
Steam engines of all classes,	192
Electric dynamos,	47
Pumps of all classes,	136
Pumps delivering water to surface,	41
Air compressors,	11
Fans in use,	28
New mines opened,	1

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Hudson Coal Company,	556,768
Hillside Coal and Iron Company,	409,309
Mount Jessup Coal Company, Limited,	277,171
Connell Anthracite Mining Company,	253,642
Scranton Coal Company,	241,505
Lackawanna Coal Company, Limited,	227,394
Northern Anthracite Coal Company,	209,209
Robertson Coal Company,	176,623
Racket Brook Coal Company,	141,865
Temple Coal Company,	89,219
Barton Coal Company,	72,615
Carbondale Coal Mining Company,	25,165
Richmondale Coal Company,	20,443
Grove Hill Coal Company,	18,608
Northeast Coal Company,	12,037
Bernice Anthracite Coal Company,	11,578
Bright Coal Company,	10,490
J. W. Kirby and Sons, Inc.,	10,480
Total,	2,764,121

Production by Counties

Lackawanna,	1,672,176
Susquehanna,	419,789
Sullivan,	474,429
Wayne,	197,727
Total,	2,764,121

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	3	------	3	7	1	8	185,589	79,537	532	181	713	177	----------	76	181
Hillside Coal and Iron Co.,	2	------	2	2	1	3	204,655	204,655	637	196	833	319	----------	319	196
Mount Jessup Coal Co., Limited,	5	------	5	8	1	9	55,434	34,646	475	115	590	95	----------	59	115
Connell Anthracite Mining Co.,	2	------	2	6	1	7	126,821	42,274	316	144	460	158	----------	53	144
Scranton Coal Co.,	------	------	------	------	3	3	----------	----------	283	181	464	----------	----------	----------	60
Lackawanna Coal Co., Limited,	2	------	2	1	1	2	113,697	227,394	341	164	505	171	----------	341	164
Northern Anthracite Coal Co.,	------	------	------	2	------	2	----------	104,604	190	87	277	----------	----------	95	----------
Racket Brook Coal Co.,	1	1	2	5	1	6	141,865	28,373	241	90	331	241	90	48	90
Temple Coal Co.,	------	------	------	1	------	1	----------	89,219	114	93	207	----------	----------	114	----------
Richmondale Coal Co.,	------	------	------	------	2	2	----------	----------	30	22	52	----------	----------	----------	11
Grove Hill Coal Co.,	------	------	------	1	------	1	----------	18,608	45	17	62	----------	----------	45	----------
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	168	227	395	----------	----------	----------	----------
Totals and averages,	15	1	16	33	11	44	184,274	83,762	3,372	1,517	4,889	225	1,517	102	138

TABLE J.—Operators and mines, name of coal bed, kind of openings,, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Hudson Coal Co.									
Clinton,	Lackawanna, Wayne,	Clifford,	26	Drift,	Non-gas.,			3,590	
Connell Anthracite Mining Co.*									
Temple Coal Co.*									

*Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co.						
Clinton,	Wayne, Lackawanna, Susquehanna,	R. Y. Williams,	Scranton,	Nathaniel Dixon,	Forest City,	Delaware & Hudson
Clinton Washery,	Wayne,					
Hillside Coal and Iron Co.						
Forest City,	Susquehanna,	W. P. Jennings,	Scranton,	Arthur Wrightson,	Forest City,	Erie
Mount Jessup Coal Co., Limited						
Mount Jessup No. 2,	Lackawanna,	E. H. Ford,	Peckville,			Delaware & Hudson
Connell Anthracite Mining Co.						
Connell,	Sullivan,	W. L. Connell,	Scranton,			Lehigh Valley
Scranton Coal Co.						
Ontario,	Lackawanna,	John T. Cartwright,	Peckville,	J. J. Aitken,	Dickson City,	N. Y. O. & W.
Ontario Washery,						
Lackawanna Coal Co., Limited						
Lackawanna,	Lackawanna,	F. H. Hemelright,	Scranton,	John Mellow,	Jermyn,	D. L. & W., Erie
Northern Anthracite Coal Co.						
Murray,	Sullivan,	Charles A. Murray,	Mildred,			Lehigh Valley
Robertson Coal Co.						
Robertson Washery,	Lackawanna,	W. G. Robertson,	Scranton,			N. Y., O. & W.
Racket Brook Coal Co.						
Racket Brook,	Lackawanna,	E. B. Burr,	Carbondale,			Delaware & Hudson
Temple Coal Co.						
Northwest,	Lackawanna,	F. H. Hemelright,	Scranton,	John Mellow,	Jermyn,	N. Y., O. & W.; Erie
Barton Coal Co.						
Barton Washery,	Lackawanna,	William D. Evans,	Peckville,	William D. Evans,	Peckville,	N. Y., O. & W.
Carbondale Coal Mining Co.						
Boland,	Lackawanna,	Leonard F. Boland	Carbondale,			Delaware & Hudson

TABLE 1.—Continued.

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Richmondale Coal Co. Richmondale,††	Lackawanna,			H. F. Warner,	Carbondale,	N. Y., O. & W.
Grove Hill Coal Co. Grove Hill,	Lackawanna,	R. Bradley,	Peckville,	J. W. Taylor,	Peckville,	Erie
Northeast Coal Co. Northeast,***	Wayne,	Max Mareus,	Pittston,	J. B. Shepard,	Forest City,	N. Y., O. & W.
Bernice Anthracite Coal Co. Stires*	Sullivan,	George O. Thomas,	Mildred,	George O. Thomas,	Mildred,	W. & N. B.
Bright Coal Co. Bright,	Lackawanna,	David Spruks,	Scranton,	Jonathan Vipond,	Scranton,	N. Y., O. & W.
J. W. Kirby and Sons, Inc. Stillwater,	Susquehanna,	J. W. Kirby,	Scranton,	R. H. O'Brien,	Forest City,	Erie
Simpson Coal Co. Simpson,**						

*New operation.
††Formerly operated by Elk Brook Coal Co , abandoned by them September, 1918.
***Old operation reopened.
**Idle.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Clinton,	Wayne, Lackawanna, Susquehanna,	407,611	13,735	5,067	426,413	287	713	3	8	299,450	112,250	6,120
Clinton Washery,	Wayne,	120,889	9,466		130,355	284						
Totals,		528,500	23,261	5,067	556,768		713	3	8	299,450	112,250	6,120
Hillside Coal and Iron Co.												
Forest City,	Susquehanna,	357,950	38,312	13,047	409,309	292	833	2	3	321,975	92,460	6,200
Mount Jessup Coal Co., Limited												
Mount Jessup No. 2,	Lackawanna,	267,019	1,200	8,952	277,171	293	500	5	9	161,066	79,243	2,875
Connell Anthracite Mining Co.												
Connell,	Sullivan,	203,316	45,000	5,326	253,642	258	460	2	7	108,625	21,525	130,150
Scranton Coal Co.												
Ontario,	Lackawanna,	144,698	50,242	2,951	197,891	233	445		3	20,875	123,250	
Ontario Washery,		43,614			43,614	174	19					
Totals,		188,312	50,242	2,951	241,505		464		3	20,875	123,250	
Lackawanna Coal Co., Limited												
Lackawanna,	Lackawanna,	163,890	36,383	27,121	227,394	255	505	2	2	46,975	81,425	
Northern Anthracite Coal Co.												
Murray,	Sullivan,	200,184	6,000	3,025	209,209	246	277		2	120,000	2,500	

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Robertson Coal Co.												
Robertson Washery,	Lackawanna,	175,962	500	361	176,623	276	81					
Racket Brook Coal Co.												
Racket Brook,	Lackawanna,	137,279	1,327	3,259	141,865	298	331	2	6	70,375	62,300	68,125
Temple Coal Co.												
Northwest,	Lackawanna,	80,189	8,030	1,000	89,219	180	207		1	19,575	40,450	
Barton Coal Co												
Barton Washery,	Lackawanna,	72,615			72,615	266	43					
Carbondale Coal Mining Co.												
Boland,	Lackawanna,	19,056	4,250	1,859	25,165	288	85			800	2,000	1,500
Richmondale Coal Co.												
Richmondale,	Lackawanna,	20,000	300	143	20,443	85	52		2	500	500	750
Grove Hill Coal Co.												
Grove Hill,	Lackawanna,	16,661	200	1,747	18,608	301	62		1	6,000	19,200	400
Northeast Coal o.												
Northeast,*	Wayne,	11,737	300		12,037	244	54			2,375	6,000	13,000
Bernice Anthracite Coal Co.												
Stires,	Sullivan,	9,153	2,400	25	11,578	154	75			2,250	200	

*Old operation reopened.

Bright Coal Co. Bright,	Lackawanna,	10,177	160	213	10,490	287	18	--------	--------	9,400	--------	--------
J. W. Kirby and Sons, Inc. Stillwater,	Susquehanna,	10,100	360	20	10,480	300	39	--------	--------	7,000	1,275	--------
Grand totals,	--------	2,472,100	217,905	74,116	2,764,121	--------	4,889	16	44	1,197,175	644,838	229,120

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage						Air compressors
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.,	Wayne, Lackawanna, Susquehanna,			5	1,215	39	4,144			1	300		8,100	7	1,550	71		2		10	3	970
Hillside Coal and Iron Co.,	Susquehanna,			32	3,300	34	4,100			5	1,430	32	11,850	10	5,100	51		3		20	3	2,500
Mount Jessup Coal Co., Limited.	Lackawanna,			35	2,243					1	35	9	6,300	3	3,750	28				1	2	1,300
Connell Anthracite Mining Co.,	Sullivan,			7	1,900	10	1,530			4	730	2	800	2	800	9				14		
Scranton Coal Co.,	Lackawanna,	6	120	14	2,185	53	3,249			2	115	33	12,031	7	3,600	80		3		2		
Lackawanna Coal Co., Limited.	Lackawanna,			9	2,310	21	2,350			3	460	21	15,750	5	4,800			3		14		
Northern Anthracite Mining Co.	Sullivan,			6	460	7	460									28						
Robertson Coal Co.	Lackawanna,																					
Racket Brook Coal Co.,	Lackawanna,			1	100	1	15			17	1,200	4	700	3	600	15		3		8		
Temple Coal Co.,	Lackawanna,			5	940	18	1,785			2	405	8	2,000	2	400			2		1	1	360
Barton Coal Co.,	Lackawanna,									10	425											
Carbondale Coal Mining Co.	Lackawanna,			6	330	3	210			2	40	1	200	1	200	8		5			1	200
Richmondale Coal Co.,	Lackawanna,															6		1				
Grove Hill Coal Co.,	Lackawanna,			1	20							1	25			4				3		
Northeast Coal Co.,	Wayne,			1	25							1	500			6					1	180
Bernice Anthracite Coal Co.	Sullivan,			2	250	2	76					1	400	1	400	6						
Bright Coal Co.,	Lackawanna,															3						
J. W. Kirby and sons, Inc.	Lackawanna,			3	100	4	400									5						
Totals,		6	120	127	15,378	192	18,319			47	5,140	136	58,516	41	21,200	320		22		73	11	5,600

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiecmen	Timbermen and rockmen	Pumpmen and pipe men	Electricians	Doorboys	All other employes	Total inside
Hudson Coal Co.,	Wayne, Lackawanna, Susquehanna,	1	11	------	196	131	*	------	11	10	57	13	4	------	8	2	24	61	532
Hillside Coal and Iron Co.,	Susquehanna,	4	8	------	361	78	------	------	20	19	40	21	5	1	11	4	11	54	657
Mount Jessup Coal Co., Limited.	Lackawanna,	1	4	4	238	101	------	------	------	------	67	5	2	3	7	9	7	27	475
Connell Anthracite Mining Co.,	Sullivan,	1	4	1	164	32	------	14	19	31	------	18	------	6	12	6	2	6	316
Scranton Coal Co.,	Lackawanna,	2	4	------	150	45	------	------	2	------	38	9	1	2	6	------	2	22	283
Lackawanna Coal Co., Limited,	Lackawanna,	3	5	4	144	37	------	------	12	13	13	20	3	19	8	9	7	44	341
Northern Anthracite Coal Co.,	Sullivan,	1	1	------	90	20	------	------	------	------	24	6	------	11	------	1	6	30	190
Robertson Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	2	7	3	15	241
Racket Brook Coal Co.,	Lackawanna,	1	7	------	107	50	------	------	8	8	18	15	------	------	2	------	1	13	114
Temple Coal Co.,	Lackawanna,	1	1	------	38	26	4	11	1	1	7	4	2	2	2	------	------	------	------
Barton Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	6	1	------	------	1	------	------	------	51
Carbondale Coal Mining Co.,	Lackawanna,	1	------	------	24	18	------	------	------	------	5	1	------	------	------	------	------	------	30
Richmondale Coal Co.,	Lackawanna,	1	------	------	11	11	------	------	------	------	6	1	------	2	1	1	------	------	45
Grove Hill Coal Co.,	Lackawanna,	1	------	------	16	15	------	------	1	1	6	2	------	------	------	1	------	11	36
Northeast Coal Co.,	Wayne,	1	------	------	14	1	------	------	------	------	5	2	3	2	1	------	------	2	48
Bernice Anthracite Coal Co.,	Sullivan,	1	------	------	28	2	------	------	------	2	2	------	------	------	1	------	------	------	10
Bright Coal Co.,	Lackawanna,	1	------	------	6	------	------	------	------	------	3	------	------	------	------	------	------	------	23
J. W. Kirby and Sons, Inc.,	Susquehanna,	1	------	------	15	4	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals,		22	46	9	1,602	571	4	25	74	85	297	118	20	48	60	40	63	288	3,372

*Not reported.

TABLE 3.—PART 1.—Continued.

Operators	County	Outside												Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	
Hudson Coal Co.,	Wayne, Lackawanna, Susquehanna,	1	3	5	4	34	7			4	7	116	181	713
Hillside Coal and Iron Co.,	Susquehanna,	1	1	1	15	17	5	7	10	6	2	131	196	833
Mount Jessup Coal Co., Limited.	Lackawanna,	1	1	2	5	7	3	2	6		11	77	115	590
Connell Anthracite Mining Co.,	Sullivan,	1		4	5	14	3	12		30	12	63	144	460
Scranton Coal Co.,	Lackawanna,	1	1	4	6	39	6	5	16	3	2	98	181	464
Lackawanna Coal Co., Limited,	Lackawanna,	1	1	4	9	22	5	5	5	8	4	100	164	505
Northern Anthracite Coal Co.,	Sullivan,	1	2	2	3	7	1	2	16	24	3	26	87	277
Robertson Coal Co.,	Lackawanna,	1	2	1	4	4	1		4	10	2	52	81	81
Racket Brook Coal Co.,	Lackawanna,	1	4	3	8	12	6	4	10	9	5	28	90	331
Temple Coal Co.,	Lackawanna,	1	1	1	3	10	2	3	10	1	2	59	93	207
Barton Coal Co.,	Lackawanna,	1			1		1		1			39	43	43
Carbondale Coal Mining Co.,	Lackawanna,	1	2	1	2	10	1	1		2	2	12	34	85
Richmondale Coal Co.,	Lackawanna,	1	1	1	1		1	1				16	22	52
Grove Hill Coal Co.,	Lackawanna,	1	1	1	1	1	1		7		1	3	17	62
Northeast Coal Co.,	Wayne,	1	2	1	2	2			1			9	18	54
Bernice Anthracite Coal Co.,	Sullivan,	1		1	2	4		2	10	3		4	27	75
Bright Coal Co.,	Lackawanna,	1	1	1		1				4			8	18
J. W. Kirby and Sons, Inc.,	Susquehanna,		1	1		2				9	1	2	16	39
Totals,		17	24	34	71	186	43	44	96	113	54	835	1,517	4,889

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Wayne, Lackawanna, Susquehanna,	25	20	26	24	25	26	26	25	25	24	21	20	287
Hillside Coal and Iron Co.,	Susquehanna,	26	22	24	18	24	26	26	26	25	25	24	26	292
Mount Jessup Coal Co., Limited,	Lackawanna,	27	21	26	23	24	25	24	25	25	24	23	26	293
Connell Anthracite Mining Co.,	Sullivan,	24	21	27	19	19	23	23	22	20	19	19	22	258
Scranton Coal Co.,	Lackawanna,	22	19	21	19	19	20	20	20	18	18	17	20	233
Lackawanna Coal Co., Limited,	Lackawanna,	22	20	22	15	21	23	23	23	22	21	20	23	255
Northern Anthracite Coal Co.,	Sullivan,	20	20	22	19	20	23	22	21	20	19	20	20	246
Racket Brook Coal Co.,	Lackawanna,	29	19	25	24	25	28	27	25	25	23	22	26	298
Temple Coal Co.,	Lackawanna,	15	10	16	16	14	13	14	15	16	16	16	19	180
Carbondale Coal Mining Co.,	Lackawanna,	22	23	26	23	21	25	24	25	23	24	26	26	288
Richmondale Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	12	25	23	25	85
Grove Hill Coal Co.,	Lackawanna,	25	25	26	25	25	26	25	25	25	26	23	25	301
Northeast Coal Co.,	Lackawanna,	------	6	15	21	24	26	26	26	26	27	23	24	244
Bernlee Anthracite Coal Co.,	Sullivan,	------	------	15	20	21	------	21	24	25	24	24	20	194
Bright Coal Co.,	Lackawanna,	25	23	23	23	25	26	21	25	25	25	22	24	287
J. W. Kirby and Sons, Inc.,	Susquehanna,	25	25	25	25	25	25	25	25	25	25	25	25	300

TABLE 4—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan.	13	Anthony Logar,	Austrian,	Miner,	58	M	1	3	Clinton,	Lackawanna,	Fall of clay roof in pillar work.
	27	Jake Deposki,	Polish,	Miner's laborer,	48	M	1		Lackawanna,	Lackawanna,	Fall of rock at face of chamber.
Feb.	7	John Colesar,	Slavonian,	Miner,	24	M	1	1	Mount Jessup No. 2.	Lackawanna,	Fall of rock at face of chamber.
	10	Andrew Novobilsky,	Polish,	Miner,	40	M	1	6	Racket Brook,	Lackawanna,	Blast at face of heading.
Mar.	3	Peter Kurkiewick,	Russian,	Miner,	27	M	1	2	Mount Jessup No. 2.	Lackawanna,	Fall of roof at face of heading.
	10	John Tendzoloski,	Lithuanian,	Miner,	44	M	1	6	Forest City,	Susquehanna,	Fall of rock on pillar work.
	25	Mike Sermonick,	American,	Companyman,	23	S			Lackawanna,	Lackawanna,	Props falling off truck on gangway.
June	11	Walter Weed,	American,	Brakeman,	26	M	1	4	Connell,	Sullivan,	Cars at turnout—jumped off front end of motor.
Aug.	21	Michael Draus,	American,	Driver,	17	S			Clinton,	Lackawanna,	Kicked by mule, on gangway.
	23	Charles Koriskis,	Lithuanian,	Miner,	28	S			Forest City,	Susquehanna,	Fall of roof on pillar.
Sept.	2	Arthur Harris,	English,	Miner,	37	M	1	3	Mount Jessup No. 2.	Lackawanna,	Blast at face of chamber.
Oct.	5	Noni Lasndrilli,	Italian,	Miner's laborer,	24	M	1	1	Mount Jessup No. 2.	Lackawanna,	Fall of rock at face of chamber.
	20	Sam Pero,	Italian,	Miner,	44	M	1	5	Connell,	Sullivan,	Fall of rock at face of chamber.
	21	George Reedy,	American,	Runner,	18	S			Mount Jessup No. 2.	Lackawanna,	Runaway cars on run.
Dec.	8	Joe Shaporoski,	Lithuanian,	Miner's laborer,	48	M	1	1	Clinton,	Lackawanna,	Premature blast at face of chamber.
	23	Malory Morrison,	American,	Laborer,	18	S			Racket Brook,	Lackawanna,	Runaway cars on plane. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date		Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan.	7	Anthony Bell,	American,	Brakeman,	22	S	Connell,	Sullivan,	Run over by motor.
	15	Michael Durma,	Greek,	Companyman,	32	S	Connell,	Sullivan,	Struck by mine rail.
Feb.	10	John Gallack,	Slavonian,	Miner,	30	M	Racket Brook,	Lackawanna,	Blast.
Mar.	13	Peter Melesky,	Polish,	Miner,	23	S	Lackawanna,	Lackawanna,	Fall of rock in chamber.
	15	Francis Petrus,	American,	Driver,	18	S	Clinton,	Lackawanna,	Cars—spragging.
	16	John Perotti,	Italian,	Miner,	34	M	Mount Jessup No. 2,	Lackawanna,	Fall of roof.
	17	Sam Storits,	Polish,	Miner,	59	M	Racket Brook,	Lackawanna,	Struck by rope on slope.
		Frank Rossa,	Italian,	Miner,	47	M	Richmondale,	Lackawanna,	Steam shovel. Outside.
	18	Mike Estok,	Slavonian,	Laborer,	60	M	Ontario,	Lackawanna,	Cars—snubbing. Outside.
	19	Joseph Petrick,	Polish,	Miner,	45	M	Connell,	Sullivan,	Fall of coal.
	20	Gerald Murray,	English,	Driver,	18	S	Grove Hill,	Lackawanna,	Cars.
		Luke Sarafine,	Italian,	Miner,	29	S	Forest City,	Susquehanna,	Motor.
	24	Henry Zebrusky,	American,	Slatepicker,	18	S	Lackawanna,	Lackawanna,	Falling at breaker. Outside.
	26	William H. VanHorn,	American,	Miner,	50	M	Murray,	Sullivan,	Pushing cars—falling.
	30	Frank Crashovits,	Austrian,	Miner,	46	M	Clinton,	Lackawanna,	Fall of coal from rib.
April	3	John Regan,	American,	Electrician,	40	M	Connell,	Sullivan,	Burned electric welding.
	10	Frank Kiemenele,	Austrian,	Miner,	42	M	Clinton,	Lackawanna,	Falling coal from rib.
	19	Rocco Gressa,	Italian,	Laborer,	36	M	Connell,	Sullivan,	Dump car. Outside.
	20	Mike Fenton,	Russian,	Miner,	55	M	Murray,	Sullivan,	Rock falling from gob.
	24	Steve Fetcho,	Slavonian,	Driver,	19	S	Mount Jessup No. 2,	Lackawanna,	Pushing cars. Outside.
June	2	Malachi Delancy,	American,	Laborer,	55	M	Racket Brook,	Lackawanna,	Caught between cars. Outside.
	29	Ray McNulty,	American,	Runner,	20	S	Racket Brook,	Lackawanna,	Cars.
July	14	John Connelly,	American,	Ticket boy,	17	S	Forest City,	Susquehanna,	Cars. Outside
	18	Frank J. Kersie,	Italian,	Laborer,	15	S	Richmondale,	Lackawanna,	Scraper line. Outside.
	27	Valentine Marver,	Austrian,	Miner,	50	M	Clinton,	Lackawanna,	Fall of rock in chamber.
Aug.	13	Joe Ippolite,	Italian,	Miner,	23	S	Racket Brook,	Lackawanna,	Fall of roof in chamber.
	17	Conrad Wisner,	German,	Headman,	21	S	Mount Jessup No. 2,	Lackawanna,	Cars.
	19	Wilbur Causene,	American,	Tracklayer,	16	S	Ontario,	Lackawanna,	Falling from railroad car at breaker. Outside.
	23	Mazarina Rossi,	Italian,	Miner,	32	M	Mount Jessup No. 2,	Lackawanna,	Fall of rock.
Sept.	3	Mike Perigrine,	Russian,	Trackman,	28	M	Mount Jessup No. 2,	Lackawanna,	Struck by iron rail falling from car.
	22	Charles Peiffer,	American,	Miner,	44	M	Connell,	Sullivan,	Timber falling.
	25	George Wilson,	English,	Miner,	45	M	Clinton,	Lackawanna,	Fall of top coal.
	30	Anthony Pere,	Italian,	Machinist,	41	M	Connell,	Sullivan,	Machinery.
Oct.	9	Andrew Opekam,	Polish,	Miner,	29	M	Mount Jessup No. 2,	Lackawanna,	Fall of coal from pillar.
	10	Edward Smith,	American,	Jigman,	22	S	Clinton,	Lackawanna,	Lifting jig tube. Outside.
	28	Anthony Pecone,	Italian,	Footman,	23	S	Mount Jessup No. 2,	Lackawanna,	Cars—snubbing.
Nov.	15	Walter Kupiec,	Austrian,	Laborer,	32	M	Forest City,	Susquehanna,	Runaway cars on chamber road.
	19	Rudolf Raunkar,	Austrian,	Miner,	32	M	Clinton,	Lackawanna,	Fall of rock in chamber.

TABLE 5.—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Dec. 8	Carmeno Persine,	Italian,	Laborer,	27	S	Mount Jessup No. 2,	Lackawanna,	Fall of rock in chamber.
	John Kulesunas,	Lithuanian,	Laborer,	30	M	Clinton,	Lackawanna,	Premature blast in chamber.
21	Sam Perry,	Italian,	Miner,	42	M	Racket Brook,	Lackawanna,	Fall of rock in chamber.
22	Thomas Harris,	American,	Headman,	22	S	Ontario,	Lackawanna,	Car. Outside.
27	Amadore Harrina,	Italian,	Miner,	26	S	Mount Jessup No. 2,	Lackawanna,	Fall of coal in chamber.
29	Harold Bishop,	American,	Brakeman,	21	S	Northwest,	Lackawanna,	Cars.

1920

SECOND DISTRICT

LACKAWANNA COUNTY

P. J. Moore, Inspector, Carbondale

SUMMARY OF STATISTICS

Collieries in operation (breakers),	12
Washeries in operation,	1
Mines in district,	30
Gaseous mines in operation,	3
Non-gaseous mines in operation,	27
Tons of coal shipped to market,	3,016,611
Tons used at mines for steam and heat,	284,564
Tons sold to local trade and used by employes,	42,926
Tons produced (gross),	3,344,101
Tons produced by compressed air machines,	4,851
Tons produced by electrical machines,	50,040
Persons employed inside,	4,154
Persons employed outside,	1,710
Persons employed inside between 16 and 21 years,	508
Persons employed outside between 14 and 21 years,	350
Fatal accidents inside,	14
Fatal accidents outside,	3
Serious non-fatal accidents inside,	41
Serious non-fatal accidents outside,	11
Tons produced per fatal accident inside,	238,864
Tons produced per fatal accident inside and outside,	196,712
Persons employed per fatal accident inside,	297
Persons employed per fatal accident outside,	570
Persons employed per fatal accident inside and outside,	345
Persons employed per non-fatal accident inside,	101
Persons employed per non-fatal accident outside,	155
Persons employed per non-fatal accident inside and outside,	113
Wives made widows,	9
Children made orphans,	24
Steam locomotives outside,	27
Electric motors inside,	94
Cylindrical boilers,	15
Tubular boilers,	72
Steam engines of all classes,	179
Electric dynamos,	35
Pumps of all classes,	139
Pumps delivering water to surface,	50
Air compressors,	28
Fans in use,	23
Old mines abandoned,	2

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Hudson Coal Company,	2,331,361
Scranton Coal Company,	375,491
Temple Coal Company,	284,376
Rhondda Coal Company,	126,616
Archbald Coal Company,	114,537
Hillside Coal and Iron Company,	61,541
Murrin Coal Company,	23,526
Humbert Coal Company,	22,131
Wilben Coal Company,	4,522
Total,	3,344,101

Production by Counties

Lackawanna,	3,344,101

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	10	1	11	36	9	45	233,136	64,760	2,674	969	3,643	267	969	74	108
Scranton Coal Co.,	1	1	2	2	2	4	375,491	187,745	623	262	885	623	262	311	131
Temple Coal Co.,	3	1	4	2	------	2	94,792	142,188	349	158	507	116	158	174	------
Archbald Coal Co.,	------	------	------	1	------	1	------	------	182	116	298	------	------	182	------
Other Operators—No Accidents,	------	------	------	------	------	------	------	------	326	205	531	------	------	------	------
Totals and averages,	14	3	17	41	11	52	238,864	81,563	4,154	1,710	5,864	297	570	101	1[illegible]5

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Hudson Coal Co.									
Coal Brook,	Lackawanna,	Third Vein,	22	Tunnel,	Non-gas.,	3		14,000	
Gravity Slope,		B or Dunmore No. 2,	26	Slope,	Non-gas.,	1		6,500	
Jermyn,		B or Dunmore No. 3,	40	Tunnel,	Non-gas.,	1		7,040	
		E or Grassy,	25	Slope,	Non-gas.,	1		4,000	
Powderly,		B or Dunmore No. 2,	23	Slope,	Non-gas.,	1		8,500	
		C or Top Clark,	36	Tunnel,	Non-gas.,	2		10,000	
Totals,						9		50,040	
Murrin Coal Co.									
Fall Brook,	Lackawanna,	C or Clark,	144	Drift,	Non-gas.,		6		4,851
Grand totals,						9	6	50,040	4,851

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co. Coal Brook, Gravity Slope, Jermyn, Powderly,	Lackawanna,	R. Y. Williams,	Scranton,	William Davidson, Evan B. Williams, Jacob Evans, Richard Beer,	Carbondale, Carbondale, Jermyn, Carbondale,	Delaware & Hudson
Scranton Coal Co. Raymond, Riverside,	Lackawanna,	John Courtwright,	Scranton,	J. Aitken,	Dickson City,	N. Y., O. & W.
Temple Coal Co. Sterrick Creek,	Lackawanna,	F. H. Hemelright,	Scranton,	John Mellow, James McAndrew,	Jermyn,	Erie
Rhondda Coal Co. Rhondda Washery,	Lackawanna,	F. P. Benjamin,	Scranton,	George A. Bell,	Peckville,	N. Y., O. & W.
Archbald Coal Co. Binghamton (Tappans),	Lackawanna,	Richard Howells,	Scranton,			Delaware & Hudson
Hillside Coal & Iron Co. Erie,	Lackawanna,	J. P. Jennings,	Scranton,	Arthur Wrightson,	Forest City,	Erie
Murrin Coal Co. Fall Brook,	Lackawanna,	Frank Murrin,	Carbondale,			N. Y., O. & W.
Humbert Coal Co. Sunnyside,	Lackawanna,	M. J. Loftus,	Jessup,			Erie
Wilben Coal Co. Stone,	Lackawanna,	B. H. Goldberg,	Scranton,			N. Y., O. & W.
Spruks Mining Co. Brookside,*	Lackawanna,	B. H. Goldberg,	Scranton,			N. Y., O. & W.
Oak Run Coal Co. Oak Run**						
Falls Mining Co. Falls*** West Mountain***						

*Stripping operation: formerly operated by Watkins Coal Co. **Idle. ***Abandoned

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Coal Brook,	Lackawanna,	750,869	113,291	----------	864,160	299	1,174	5	18	443,375	81,531	[illegible]
Gravity Slope,	Lackawanna,	619,366	21,497	8,347	649,210	290	959	2	9	313,350	15,637	197,249
Jermyn,	Lackawanna,	430,617	69	----------	430,686	278	731	1	11	224,350	105,900	29,5[illegible]6
Powderly,	Lackawanna,	341,252	33,561	12,492	387,305	321	779	3	7	97,800	37,466	70,042
Totals,		2,142,104	168,418	20,839	2,331,361	--------	3,643	11	45	1,078,875	240,534	213,210
Scranton Coal Co.												
Raymond,	Lackawanna,	178,968	30,741	2,242	211,951	282	530	1	3	24,250	168,500	----------
Riverside,	Lackawanna,	128,579	32,987	1,974	163,540	277	355	1	1	60,000	27,700	54,000
Totals,		307,547	63,728	4,216	375,491	--------	885	2	4	84,250	196,200	54,000
Temple Coal Co., Sterrick Creek,	Lackawanna,	243,901	31,281	9,194	284,376	259	507	4	2	104,325	70,300	----------
Rhondda Coal Co. Rhondda Washery,	Lackawanna,	125,216	1,400	----------	126,616	289	51	--------	--------	----------	----------	----------
Archbald Coal Co. Binghamton, (Tappans),	Lackawanna,	103,770	6,402	4,365	114,537	281	208	--------	1	4,450	82,000	----------
Hillside Coal and Iron Co. Erie,	Lackawanna,	48,294	10,835	2,412	61,541	257	186	--------	--------	77,925	2,025	23,745
Murrin Coal Co. Fall Brook,	Lackawanna,	22,944	----------	582	23,526	306	98	--------	--------	2,175	8,635	8,840

TABLE 2.—PART 1.—Continued.

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Humbert Coal Co.												
Sunnyside,	Lackawanna,	19,502	2,500	129	22,131	111	139	-------	-------	19,000	2,426	-------
Wilben Coal Co.												
Stone,	Lackawanna,	3,333	-------	1,189	4,522	327	14	-------	-------	600	600	-------
Spruks Mining Co.												
Brookside,†	Lackawanna,	-------	-------	-------	*	*	43	-------	-------	-------	-------	-------
Grand totals,		3,016,611	284,564	42,926	3,344,101	-------	5,864	17	52	1,371,600	602,720	299,795

†Stripping.
*Not reported.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant: Boilers: Cylindrical: Number	Power plant: Boilers: Cylindrical: Total horse power	Power plant: Boilers: Tubular: Number	Power plant: Boilers: Tubular: Total horse power	Power plant: Engines: Steam engines (all classes): Number	Power plant: Engines: Steam engines (all classes): Total horse power	Power plant: Engines: Internal combustion engines (gas): Number	Power plant: Engines: Internal combustion engines (gas): Total horse power	Power plant: Engines: Electric dynamos (all classes): Number	Power plant: Engines: Electric dynamos (all classes): Total kilowatts	Pumps: Number	Pumps: Total capacity in gallons per minute	Pumps: Pumps delivering water to the surface: Number	Pumps: Pumps delivering water to the surface: Approximate number of gallons per minute	Haulage: Horses and mules	Haulage: Locomotives: Gasoline	Haulage: Locomotives: Steam	Haulage: Locomotives: Air	Haulage: Locomotives: Electric	Air compressors: Number	Air compressors: Total capacity in cubic feet per minute
Hudson Coal Co.,	Lackawanna,	----	--------	35	8,915	104	16,042	----	--------	12	6,762	94	85,300	35	19,400	245	----	14	----	79	15	3,800
Scranton Coal Co.,		----	--------	15	2,315	32	2,394	----	--------	3	313	21	11,845	8	6,300	90	----	3	----	3	5	2,660
Temple Coal Co.,		----	--------	9	1,850	28	2,800	----	--------	4	370	17	10,900	3	2,200	----	----	2	----	4	2	1,400
Rhondda Coal Co.,		1	150	----	--------	----	--------	----	--------	----	--------	1	800	----	--------	----	----	----	----	----	----	--------
Archbald Coal Co.,		----	--------	4	550	4	120	----	--------	10	560	----	--------	1	350	24	----	4	----	3	1	900
Hillside Coal and Iron Co.,		----	--------	6	900	9	600	----	--------	1	150	6	2,400	2	1,560	11	----	----	----	5	1	1,100
Murrin Coal Co.,		----	--------	1	100	----	--------	----	--------	5	180	----	--------	1	100	7	----	2	----	----	1	900
Humbert Coal Co.,		----	--------	2	150	2	60	----	--------	----	--------	----	--------	----	--------	12	----	2	----	----	3	--------
Wilben Coal Co.,		14	†	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Totals,		15	150	72	14,780	179	22,016	----	--------	35	8,275	135	111,245	50	29,910	389	----	27	----	94	28	10,760

†Not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																		Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miner's laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Lackawanna,	5	50	------	967	646	4	16	91	128	217	65	21	26	18	9	93	318	2,674
Scranton Coal Co.,		2	4	------	254	138	------	------	3	2	88	14	2	1	9	------	12	94	623
Temple Coal Co.,		1	4	3	114	85	------	------	4	4	49	20	1	16	5	3	1	39	349
Rhondda Coal Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Archbald Coal Co.,		3	------	------	78	57	------	------	3	------	28	4	3	1	------	------	1	4	182
Hillside Coal and Iron Co.,		1	1	------	79	31	------	------	5	5	6	4	------	------	------	1	2	15	150
Murrin Coal Co.,		1	------	------	30	40	†	------	------	------	8	2	------	2	1	------	------	------	84
Humbert Coal Co.,		1	1	------	32	22	------	------	3	3	9	4	2	4	------	1	2	------	84
Wilben Coal Co.,		1	------	------	3	3	------	------	------	------	1	------	------	------	------	------	------	------	8
Spruks Mining Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals,		15	60	3	1,557	1,022	4	16	109	142	406	113	29	50	33	14	111	470	4,154

†Not reported.

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Lackawanna,	4	9	28	26	121	31	7	2	85	34	622	969	3,643
Scranton Coal Co.,		1	2	8	7	43	4	1	72	21	2	101	262	885
Temple Coal Co.,		1	1	2	3	17	4	5	8	6	4	107	158	507
Rhondda Coal Co.,		1		1	4	2	1		2	1	1	38	51	51
Archbald Coal Co.,		1	5	4	6	14	4	3	14	6	2	59	116	298
Hillside Coal and Iron Co.,			1	1	1	5	1		2			25	36	186
Murrin Coal Co.,		1	1	2	2	4	1	2		1			14	98
Humbert Coal Co.,		1	1	1	4	6	1	2	9	4	2	24	55	139
Wilben Coal Co.,									2				4	14
Spruks Mining Co.,				1		5			3			34	43	43
Totals,		10	18	48	55	217	47	20	114	124	45	1,014	1,710	5,864

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Lackawanna,	27	21	27	25	25	24	26	26	25	24	22	25	297
Scranton Coal Co.,		25	21	25	24	24	25	25	24	23	24	22	17	279
Temple Coal Co.,		21	18	22	12	24	24	25	24	22	22	21	24	259
Archbald Coal Co.,		23	20	23	22	22	23	25	26	25	23	23	26	281
Hillside Coal and Iron Co.,		22	19	24	16	22	22	23	22	22	22	20	23	257
Murrin Coal Co.,		26	23	26	26	26	26	26	25	25	26	26	25	306
Humbert Coal Co.,		21	------	------	------	------	------	------	------	15	25	24	26	111
Wilben Coal Co.,		27	24	27	27	26	29	30	27	28	29	27	26	327

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 17	Thomas Majinsky,	Polish,	Miner,	44	W.			Gravity Slope,	Lackawanna	Flying coal from blast at face of chamber.
Mar. 23	John Zipp,	Polish,	Miner's laborer,	46	M.	1	1	Jermyn,		Fall of roof at face of pillar.
April 12	Ubaldi Matizoni,	Italian,	Miner,	40	S.			Gravity Slope,		Fall of middle rock in face of gangway.
June 10	Joseph Jenosky,	Lithuanian,	Miner's laborer,	32	M.	1	2	Powderly,		Fall of roof at face of chamber.
26	Michael Coatuse,	Greek,	Miner,	42	M.	1	1	Sterrick Creek,		Fall of roof 100 feet from face of pillar.
July 13	Thomas Richards,	American,	Brakeman,	19	S.			Powderly,		Falling under cars after trip had been started. Outside.
16	Stephen Curyk,	Austrian,	Miner,	38	M.	1	6	Coal Brook,		Flying coal from blast in adjoining chamber, which broke through pillar.
	Joseph Hodorawis,	American,	Runner,	19	S.					
29	Michael Meholsky,	Russian,	Slatepicker,	17	S.			Riverside,		Trip of cars bumped car he was on. Outside.
Aug. 11	Metro Blotsky,	Russian,	Miner,	45	M.	1	3	Powderly,		Fall of roof at face of chamber.
Sept. 20	John Petrock,	Polish,	Miner,	37	M.	1	4	Coal Brook,		Falling under trip of cars on haulage road—working as brakeman.
	William McGuiness,	American,	Miner's laborer,	31	S.			Sterrick Creek,		Fall of roof at face of chamber.
Oct. 4	James Flannigan,	American,	Miner,	53	S.			Coal Brook,		Fall of roof at face of pillar.
Nov. 18	Dominick Rudelavage,	Polish,	Miner,	35	M.	1	4	Raymond,		Fall of roof at face of pillar.
20	Andrew Hudko,	Slavonian,	Miner's laborer,	42	M.	1	1	Sterrick Creek,		Fall of roof at face of gangway.
Dec. 3	Peter Hoholok,	Russian,	Miner's laborer,	26	M.	1		Coal Brook,		Fall of roof at face of pillar.
13	John Meneeley,	American,	Slatepicker,	75	W.			Sterrick Creek,		Falling on scraper line in breaker. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 6	William Farrell,	American,	Motorman,	23	M	Gravity Slope,	Lackawanna	Lifting derailed car.
15	Michael McDonough,	American,	Miner,	48	M	Coal Brook,		Fall of top rock.
22	John Mihalco,	Russian,	Driver,	18	S	Coal Brook,		Derailed car.
30	Raymond Laval,	American,	Jig runner,	16	S	Raymond,		Caught in belt wheel while starting jig. Outside.
Feb. 24	William Vitacovitsh,	Russian,	Miner,	45	M	Powderly,		Derail'ed car.
	Joseph Rydzik,	American,	Driver,	19	S	Jermyn,		Fall of top rock.
25	Patrick J. Connor,	American,	Miner,	46	M	Powderly,		Fall of top coal.
	John Curran,	American,	Laborer,	18	S	Gravity Slope,		Caught between drum of engine and rope. Outside.
26	Clair Dougher,	American,	Driver,	17	S	Binghamton,		Loaded car ran over foot.
	Thomas Wilson,	American,	Loco. engineer,	28	M	Jermyn,		Locomotive derailed—fixing sand pipe.
	George Revels,	American,	Laborer,	35	M	Gravity Slope,		Falling between floors in breaker. Outside.
March 8	Alexander Zelewiski,	American,	Doorboy,	17	S	Gravity Slope,		Slipping on rail.
16	Roso Centomo,	Italian,	Headman,	38	M	Powderly,		Props falling from railroad car. Outside.
24	John Veracofsky,	Polish,	Miner's laborer,	47	M	Gravity Slope,		Fall of top coal.
April 27	John Bosick,	American,	Driver,	17	S	Powderly,		Loaded car on gangway road—riding.
May 10	John Soloman,	Polish,	Miner's laborer,	30	S	Raymond,		Blast—Charging.
	Stanley Zavada,	Polish,	Miner's laborer,	37	S	Coal Brook,		Fall of roof—replacing timber.
20	Wash Darko,	Russian,	Miner's laborer,	21	S.	Gravity Slope,		Lifting piece of coal into car.
26	Philip Burke,	American,	Miner,	36	M.	Riverside,		Flying coal from blast at face of chamber.
29	Leo Miller,	Polish,	Miner's laborer,	23	M.	Coal Brook,		Fall of roof.
June 22	Joseph Pashurie,	Polish,	Doorboy,	17	S.	Gravity Slope,		Caught between cars and sand drier.
	Joseph Dudor,	Polish,	Miner's laborer,	34	M.	Coal Brook,		Struck by piece of rock that slid from gob into chute.
July 1	Joseph Pryser,	Polish,	Miner's laborer,	36	M.	Coal Brook,		Caught between cars.
13	William Davis,	American,	Laborer,	47	M.	Coal Brook,		Struck by steel rope. Outside.
21	William D. Lewis,	Welsh,	Miner,	64	M.	Jermyn,		Flying coal from blast.
23	Anthony Markinsin,	Lithuanian,	Miner,	40	M.	Coal Brook,		Fall of roof.
26	Michael Chemacosky,	Polish,	Miner's laborer,	41	M.	Gravity Slope,		Fall of top coal.
Aug. 3	James Burns,	Irish,	Miner,	48	M.	Coal Brook,		Flying coal from blast.
14	Stephen Yurkewski,	American,	Doorboy,	16	S.	Jermyn,		Derailed car.
17	Victor Kuropchak,	Austrian,	Laborer,	48	M.	Coal Brook,		Timber falling from railroad car—unloading. Outside.
Sept. 18	Aleck Spalk,	Polish,	Miner,	39	M.	Powderly,		Fall of roof.
24	William Cunningham,	Irish,	Miner,	57	M.	Jermyn,		Prop falling.

TABLE 5.—Continued

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Sept. 27	John VanNort,	American.	Driver,	22	M.	Powderly,	Lackawanna	Striking against bumper of car.
30	Frank Bocianski,	Polish,	Miner,	53	M.	Coal Brook,		Fall of roof.
	Joseph Erzn,	Slavonian,	Miner's laborer,	26	S.	Coal Brook,		Caught in gears of coal—cutting machine.
	Frank Shedlanckas,	Lithuanian.	Miner's laborer,	28	M.	Coal Brook,		Flying pieces of rock from blast.
	James Crogan,	American.	Miner,	31	M.	Coal Brook,		Fall of roof near face of chamber.
Oct. 4	Linus McKenna,	American.	Driver,	18	S.	Powderly,		Struck by street car—taking mule to barn. Outside.
5	Abram Pritchard,	American.	Brakeman,	35	S.	Jermyn,		Burned by electricity—changing "dogs" that held trolley on heading road.
9	Dominico Fillipissi,	Italian,	Miner,	54	M.	Gravity Slope,		Flying coal from blast—tamping.
15	Sylvester Kuna,	Polish,	Miner,	40	M.	Coal Brook,		Fall of top coal—drilling hole at face of chamber.
26	Nicholas Domichak,	Russian,	Miner,	36	M.	Jermyn,		Fall of roof at face of chamber.
31	Charles Zimmerman	American.	Laborer,	30	M.	Coal Brook,		Thrown against mine car by steel post he was unloading from railroad car. Outside.
Nov. 3	James Colocino,	Italian.	Miner,	43	M	Jermyn,		Struck by cone of rope in chamber.
4	John Jakopich,	Austrian.	Miner's laborer,	37	S	Coal Brook,		Derailed car in chamber.
13	Alek Grotsky,	Polish,	Miner,	28	M	Jermyn,		Car on gangway—coupling.
20	John Stopa,	American.	Laborer,	22	M	Jermyn,		Caught in elevator buckets. Outside.
Dec. 3	Stanley Lascoski,	Polish,	Miner,	34	M	Jermyn,		Fall of roof at face of chamber.
12	Ernest Wellard,	American.	Carpenter,	35	M	Coal Brook,		Caught by chain hoist. Outside.
15	Sylvester Masshall,	Slavonian,	Miner's laborer,	40	M	Sterrick Creek,		Burned by gas at face of pillar.
	Joseph Poska,	Italian,	Miner,	32	M			
30	Julius Dubershinsky,	Polish,	Laborer,	20	S	Raymond,		Caught by car at ash room. Outside.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Carbondale, May 4 and 5. The Board of Examiners was composed of P. J. Moore, Mine Inspector, Carbondale, William Davidson, Superintendent, Carbondale, Thomas Kennedy, Miner, Jermyn, Judson Nelson, Miner, Vandling.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Patrick A. Quinn, Edward Kelly, Jessup; James Carey, John Richardson, Carbondale; John J. Gilgallon, Francis Joseph Holmes, John Hart, James F. Munley, Archbald; Elijah Stephens, Joseph Neary, Jermyn; Guy Carpenter, Carlton Wrightson, Ralph Shoop, Forest City.

ASSISTANT MINE FOREMEN

Walter Francis Scott, David William Johnson, George Woodworth, David Francis Kennedy, Jermyn; Cornelius Leo Toban, William Stratford, Joseph Raymond Kelleher, John J. O'Shaughnessy, Thomas Jennings, Forest City; Sydney Williams, Charles Eugene Fadden, Patrick Joseph Mackrell, Peter F. Mackrell, Robert M. McCormack, Stephen Aloysious Mackrell, Joseph Leo Heffron, Joseph Aloysious Mackrell, Olyphant; Frank M. Healey, James Patrick McAndrew, Edward Thomas Ford, John Morrow, James Gilboy, Andrew B. Murray, George A. Burke, Charles Fitzpatrick, Joseph V. Barrett, James A. Duffy, Archbald; Samuel Hamilton, James Edwards, William Aloysious Mooney, Martin Battle, William Robert Verrill, Charles Dugan, Herbert Westcott, James William Toolan, Thomas Henry Yarnold, Henry James Jones, John P. Mackrell, John Joseph Judge, Michael J. Kearney, Reuben J. Thomas, John A. Scanlon, John Emmett, Edward Battle, Walter Aston, William L. Cummings, Carbondale; Frank Joseph Nealon, Throop; William Devers, Scranton; Thomas Francis Brennan, Robert Dollan, Frank Malloy, John Muldowney, Thomas F. Grady, Simpson; Joseph Bayliff, Vandling; Eugene A. Fuller, Dunmore.

1920

THIRD DISTRICT

LACKAWANNA COUNTY

L. M. Evans, Inspector, Scranton

SUMMARY OF STATISTICS

Collieries in operation (breakers),	7
Washeries in operation,	5
Mines in district,	17
Gaseous mines in operation,	13
Non-gaseous mines in operation,	4
Tons of coal shipped to market,	2,478,176
Tons used at mines for steam and heat,	364,538
Tons sold to local trade and used by employes,	63,314
Tons produced (gross),	2,906,028
Tons produced by electrical machines,	82,000
Persons employed inside,	4,313
Persons employed outside,	1,364
Persons employed inside between 16 and 21 years,	289
Persons employed outside between 14 and 21 years,	205
Fatal accidents inside,	23
Fatal accidents outside,	6
Serious non-fatal accidents inside,	34
Serious non-fatal accidents outside,	12
Tons produced per fatal accident inside,	126,349
Tons produced per fatal accident inside and outside,	100,208
Persons employed per fatal accident inside,	188
Persons employed per fatal accident outside,	227
Persons employed per fatal accident inside and outside,	196
Persons employed per non-fatal accident inside,	124
Persons employed per non-fatal accident outside,	114
Persons employed per non-fatal accident inside and outside,	123
Wives made widows,	20
Children made orphans,	26
Steam locomotives outside,	7
Compressed air locomotives outside,	4
Electric motors inside,	80
Electric motors outside,	3
Tubular boilers,	70
Steam engines of all classes,	171
Electric dynamos,	13
Pumps of all classes,	100
Pumps delivering water to surface,	27
Air compressors,	19
Fans in use,	23

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Hudson Coal Company,	1,304,612
Delaware, Lackawanna and Western Railroad Company,	779,054
Von Storch Collieries Company,	438,798
Legitts Creek Anthracite Company,	247,847
Mid City Coal Company,	71,139
Pleasant Mount Coal Company,	63,406
Scranton Coal Company,	1,172
Total,	2,906,028

Production by Counties

Lackawanna,	2,906,028

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	12	4	16	7	5	12	108,718	186,372	1,857	527	2,384	155	132	265	105
Delaware, Lackawanna and Western Railroad Co.,	7	1	8	18	3	21	111,293	43,281	1,200	278	1,578	186	278	72	93
Von Storch Collieries Co.,	3	1	4	6	2	8	146,266	73,133	556	207	763	185	207	93	104
Legitts Creek Anthracite Co.,	1	------	1	3	1	4	247,847	82,616	452	212	664	452	---------	151	212
Pleasant Mount Coal Co.,	------	------	------	------	1	1	---------	---------	---------	79	79	---------	---------	---------	79
Other Operators—no accidents,	------	------	------	------	------	------	---------	---------	148	61	209	---------	---------	---------	---------
Totals and averages,	23	6	29	34	12	46	126,349	85,471	4,313	1,364	5,677	188	227	124	114

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Hudson Coal Co.									
Eddy Creek,	Lackawanna,	Upper Four Foot,	26	Shaft,	Gaseous,	2		12,000	
		New County,	32			2		11,500	
		Dunmore No. 4,	66			1		2,500	
Marvine,	Lackawanna,	Dunmore No. 3,	61	Shaft,	Gaseous,	2		16,000	
Dickson,	Lackawanna,	New County,	55	Shaft,	Gaseous,	3		40,000	
Totals,						10		82,000	
Legitts Creek Anthracite Co.*									

*Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co.						
Eddy Creek,	Lackawanna,	R. Y. Williams,	Scranton,	S. E. Van Horn,	Olyphant,	Delaware & Hudson
Marvine,				Edward McGlynn,	Scranton,	
Dickson Mine,				Edward McGlynn,	Scranton,	
Eddy Creek Washery,				S. E. Van Horn,	Olyphant,	
Marvine Washery,				Edward McGlynn,	Scranton,	
Delaware, Lackawanna and Western Railroad Co.						
Diamond,	Lackawanna,	S. D. Dimmick,	Scranton,	David Girvan,	Dickson City,	D., L. & W.
Cayuga,						
Diamond Washery,						
Cayuga Washery,						
Von Storch Collieries Co.						
Von Storch,	Lackawanna,	John H. Pritchard,	Scranton,			Delaware & Hudson
Legitts Creek Anthracite Co.						
Legitts Creek,	Lackawanna,	George H. Jones,	Scranton,	George H. Jones,	Scranton,	Delaware & Hudson
Mid City Coal Co.						
Bulls Head,	Lackawanna,	David Spruks,	Scranton,	Charles H. Walker,	Scranton,	N. Y., O. & W.
Pleasant Mount Coal Co.						
Pleasant Mount Washery,*	Lackawanna,	Edward J. Jackson,	Scranton,			N. Y., O. & W.
Scranton Coal Co.						
West Ridge,	Lackawanna,	John T. Cartwright,	Peckville,	J. F. Cummings,	Scranton,	N. Y., O. & W.

*New operation.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Eddy Creek,	Lackawanna,	566,294	3,728	----------	570,022	263	1,201	5	4	545,250	40	83,815
Marvine,		314,395	43,919	30,465	389,079	280	881	7	8	383,500	17,589	99,629
Dickson mine,**		129,357	----------	----------	129,357	280**	280	4	--------	227,700†	2,551†	29,299†
		1,010,316	47,647	30,465	1,088,458	--------	2,362	16	12	1,156,450	20,180	212,743
Washeries												
Eddy Creek,		54,899	161,255	----------	216,154	257	22	--------	--------	----------	----------	----------
Marvine,		----------	----------	----------	X	X	X	--------	--------	----------	----------	----------
		54,899	161,255	----------	216,154	257	22	--------	--------	----------	----------	----------
Totals,		1,065,245	208,902	30,465	1,304,612	--------	2,384	16	12	1,156,450	20,180	212,743
Delaware, Lackawanna and Western Railroad Co.												
Diamond,	Lackawanna,	464,921	41,326	----------	506,247	279	1,050	7	15	249,950	357,884	----------
Cayuga.***		214,062	19,074	----------	233,136	280	490	1	6	62,975	214,912	----------
		678,983	60,400	----------	739,383	--------	1,540	8	21	312,925	572,796	----------
Washeries												
Diamond,		6,489	9,240	----------	15,729	118	18	--------	--------	----------	----------	----------
Cayuga,		3,562	20,380	----------	23,942	307	20	--------	--------	----------	----------	----------
		10,051	29,620	----------	39,671	--------	38	--------	--------	----------	----------	----------
Totals,		689,034	90,020	----------	779,054	--------	1,578	8	21	312,925	572,796	----------

X Included with Marvine Colliery.
† Includes explosives used at Manville Colliery, 4th District.
** Coal prepared at Manville breaker, 4th District.
*** Coal prepared at Diamond breaker.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Von Storch Collieries Co.												
Von Storch,	Lackawanna,	377,975	46,402	14,421	438,798	287	763	4	8	13,250	21,598	103,870
Legitts Creek Anthracite Co.												
Legitts Creek,	Lackawanna,	226,592	16,542	4,713	247,847	272	664	1	4	160,350	35,417	65,853
Mid City Coal Co.												
Bulls Head,	Lackawanna,	55,479	2,100	13,560	71,139	281	182	-------	-------	6,250	7,150	15,200
Pleasant Mount Coal Co.												
Pleasant Mount Washery,	Lackawanna,	63,256	150	-------	63,406	124	79	-------	1	-------	-------	-------
Scranton Coal Co.												
West Ridge,	Lackawanna,	595	422	155	1,172	34	27	-------	-------	-------	-------	-------
Grand totals,	-------	2,478,176	364,538	63,314	2,906,028	-------	5,677	29	46	1,649,225	657,141	397,666

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.,	Lackawanna,	----	--------	25	6,300	121	15,329	----	--------	5	1,500	53	34,685	13	9,620	237	----	3	----	29	13	8,885
Delaware, Lackawanna and Western Railroad Co.,		----	--------	14	3,500	23	3,989	----	--------	----	--------	18	10,171	9	6,000	36	----	----	----	42	2	2,120
Von Storch Collieries Co.		----	--------	16	1,750	----	--------	----	--------	----	--------	6	7,000	----	--------	59	----	4	4	1	1	950
Legitts Creek Anthracite Co.,		----	--------	8	2,160	16	1,227	----	--------	1	200	16	17,500	3	5,000	34	----	----	----	8	2	100
Mid City Coal Co.,		----	--------	1	200	1	80	----	--------	1	150	1	200	----	--------	27	----	----	----	3	1	140
Pleasant Mount Coal Co.		----	--------	X	--------	----	--------	----	--------	6	1,468	----	--------	----	--------	----	----	----	----	----	----	--------
Scranton Coal Co.,		----	--------	6	490	10	875	----	--------	----	--------	6	1,150	2	550	7	----	----	----	----	----	--------
Totals,	----------	----	--------	70	14,400	171	21,500	----	--------	13	3,318	100	70,706	27	21,170	400	----	7	4	83	19	12,195

X Power purchased.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miner's laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Lackawanna,	5	20	20	636	317	12	13	22	33	348	31	2	26	16	4	43	309	1,857
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	4	14	7	452	397	------	------	44	56	23	42	11	48	19	11	8	164	1,300
Von Storch Collieries Co.,	Lackawanna,	1	9	1	127	246	------	------	3	3	71	8	2	9	2	3	5	66	556
Legitts Creek Anthracite Co.,	Lackawanna,	2	10	------	165	121	2	14	8	12	45	7	3	6	9	9	8	31	452
Mid City Coal Co.,	Lackawanna,	1	2	1	39	50	------	------	3	3	5	4	------	21	2	1	------	4	136
Pleasant Mount Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Scranton Coal Co.,	Lackawanna,	1	------	1	3	1	------	------	------	------	------	1	------	------	2	------	------	3	12
Totals,	----------	14	55	30	1,422	1,132	14	27	80	107	492	93	18	110	50	28	64	577	4,313

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Lackawanna,	2	4	12	19	86	9	1	24	124	13	233	527	2,384
Delaware, Lackawanna and Western Railroad Co.,		2	2	6	19	27	5	1	27	3	3	183	278	1,578
Von Storch Collieries Co.,		2	3	2	29	22	7	--------	3	--------	15	124	207	763
Legitts Creek Anthracite Co.,		1	6	2	16	41	14	2	10	14	14	92	212	664
Mid City Coal Co.,		1	1	1	3	5	1	--------	8	2	3	21	46	182
Pleasant Mount Coal Co.,		--------	1	--------	15	2	4	--------	1	--------	1	55	79	79
Scranton Coal Co.,		--------	1	--------	1	6	--------	--------	--------	--------	--------	7	15	27
Totals,	--------	8	18	23	102	189	40	4	73	143	49	715	1,364	5,677

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Lackawanna,	25	19	19	22	24	25	26	26	16	25	22	25	274
Delaware, Lackawanna and Western Railroad Co.,		26	24	26	16	25	26	26	26	12	25	22	26	280
Von Storch Collieries Co.,		26	23	26	24	25	26	26	25	12	24	24	26	287
Legitts Creek Anthracite Co.,		25	15	21	23	24	25	26	26	11	26	23	27	272
Mid City Coal Co.,		26	23	25	24	25	26	26	26	9	24	22	25	281
Scranton Coal Co.,		13	9	12	------	------	------	------	------	------	------	------	------	34

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 2	James Teague,	English,	Propman,	62	M.	1		Diamond,		Falling prop. Outside.
16	Michael Junski,	Polish,	Miner,	45	M.	1		Diamond,		Blast at face of chamber.
21	Charles Chesak,	Lithuanian,	Laborer,	49	M.	1	2	Diamond,		Falling down shaft.
	Joseph Youzulinas,	Lithuanian,	Miner,	59	M.	1				
Feb. 12	Anthony Sturgess,	Lithuanian,	Miner,	43	M.	1	1	Cayuga,		Blast at face of chamber.
14	Joseph Oglinski,	Polish,	Miner,	51	S.			Eddy Creek,		Fall of roof at face of chamber.
20	David Phillips,	Welsh,	Doorman,	70	M.	1		Diamond,		Falling under motor on gangway.
21	Lewis Kesch,	Polish,	Miner,	34	S.			Von Storch,		Falling off ladder in chamber.
Mar. 16	John Scholckus,	Russian,	Miner,	35	M.	1	3	Von Storch,		Fall of roof at pillar.
Apr. 27	Martin Burns,	American,	Driver boss,	60	W.			Dickson mine,		Struck by rope on gangway.
May 17	Sylvester Sedemik,	Russian,	Miner,	34	M.	1	6	Diamond,		Delayed blast at face of chamber.
27	John Philipo,	Polish,	Miner,	28	M.	1	2	Eddy Creek,	Lackawanna	Fall of top rock at face of chamber.
June 22	John Hegedush,	Magyar,	Miner's laborer,	58	M.	1		Eddy Creek,		Fall of roof at pillar work.
July 7	Austin E. Frear,	American,	Carpenter,	21	S.			Marvine,		Falling timber. Outside.
	Vincent Dando,	American,	Carpenter,	27	S.					
7	Walter DeFrain,	American,	Laborer,	38	M.	1	1	Von Storch,		Falling in breaker pocket. Outside.
20	John Steadcavitch,	Lithuanian,	Miner,	36	M.	1	1	Dickson mine,		Fall of roof at face of chamber.
	Peter Conapinch,	Polish,	Miner's laborer,	66	M.	1				
21	Edw. Conway,	American,	Miner,	54	M.	1	4	Eddy Creek,		Fall of roof at face of chamber.
22	Peter Gerell,	Italian,	Miner,	27	M.	1		Diamond,		Fall of roof at face of airway.
Sept. 25	A. P. Carr,	American,	Steel worker,	25	S.			Marvine,		Falling from steel girder in breaker. Outside.
27	William Gurskas,	Lithuanian,	Miner's laborer,	47	M.	1		Marvine,		Fall of roof at face of gangway.
Oct. 11	Adam Chick,	Polish,	Miner,	41	M.	1	1	Eddy Creek,		Falling down shaft.
28	Anthony Clemos,	Lithuanian,	Miner,	55	S.			Marvine,		Premature blast at face of chamber.
Nov. 24	John Rannigan,	Irish,	Laborer,	61	M.	1		Dickson Mine,		Thrown against cage when cage struck fans.
Dec. 1	Leo McHugh,	American,	Carpenter,	20	S.			Marvine,		Struck by piece of angle iron. Outside.
6	David Lewis,	American,	Companyman,	44	M.	1	3	Legitts Creek,		Burned by explosion of gas in old workings.
16	David Myrick,	English,	Miner,	35	M.	1	2	Von Storch,		Fall of roof at pillar work.
24	Michael Mordas,	Lithuanian,	Miner,	29	S.			Marvine,		Fall of roof at face of chamber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 6	David Thomas,	Welsh,	Carpenter,	60	M	Diamond,		Struck by timber. Outside.
29	Robt. Williams,	American,	Laborer,	27	S	Marvine,		Burned by steam. Outside.
30	Zigmund Sasmoutsky,	Lithunian,	Miner's laborer,	32	S	Von Storch,		Fall of roof on gangway.
Feb. 6	Frank Levenski,	American,	Doorboy,	17	S	Cayuga,		Caught between motor and car on gangway.
	Geo. Evans,	American,	Carpenter,	26	S	Diamond,		Caught between cars. Outside.
23	John Lokitus,	Lithuanian,	Miner,	49	M	Cayuga,		Struck by piece of rock in chamber.
March 1	Frank Tomas,	Russian,	Machine miner,	44	M	Marvine,		Blast at face.
8	Henry Crabb,	American,	Trackman,	28	S	Von Storch,		Lifting prop on gangway.
26	Wm. Dewedavage,	Lithuanian,	Miner's laborer,	38	S	Von Storch,		Fall of roof on gangway.
30	Thos. Harris,	American,	Miner's laborer,	29	M	Diamond,		Fall of coal from rib.
31	Frank Zapas,	Russian,	Miner,	43	M	Diamond,		Struck by piece of coal at face of chamber.
April 2	Wm. L. Davis,	Welsh,	Company man,	56	M	Diamond,		Derailed car in chamber.
29	Alex Manhart,	Lithuanian,	Miner,	38	M	Von Storch,		Rush of coal in chute.
May 4	Normal J. Murphy,	American,	Topman,	23	S	Von Storch,		Haulage rope. Outside.
14	John Brown,	Lithuanian,	Miner,	50	M	Legitts Creek,		Fall of roof at face of chamber.
17	Jos. Timlin,	American,	Runner,	22	S	Cayuga,	Lackawanna	Cars on plane.
26	Richard Evans,	Welsh,	Company man,	48	M	Diamond,		Struck by hammer on gangway.
June 10	John Cherneski,	Lithuanian,	Miner,	36	M	Von Storch,		Falling in chamber.
16	Edw. Krutel,	Polish,	Miner,	30	M	Eddy Creek,		Struck by car on slope.
21	Jos. Smith,	Austrian,	Miner's laborer,	50	M	Cayuga,		Fall of roof at face of chamber.
July 14	Jos. Stag,	Polish,	Rockman,	49	M	Diamond,		Fall of roof at face of tunnel.
22	John Bouer,	Russian,	Miner's laborer,	50	M	Von Storch,		Fall of top coal at face of chamber.
Aug. 4	Jos. Wagonis,	Lithuanian,	Miner,	36	S	Marvine,		Fall of roof at face of chamber.
6	Geo. Yonchack,	Russian,	Miner's laborer,	52	M	Diamond,		Struck by coal at face of chamber.
17	Jos. Simonick,	American,	Laborer,	23	S	Marvine,		Caught between planks. Outside.
19	Amos L. Reed,	American,	Laborer,	39	M	Pleasant Mount,		Struck by timber. Outside.
23	Dominick Dematti,	American,	Laborer,	19	S	Eddy Creek,		Machinery. Outside.
Sept. 20	Daniel O'Boyle,	American,	Carpenter,	29	S	Marvine,		Struck by shaker shaft. Outside.
Oct. 4	Edw. Merrotte,	Italian,	Miner,	28	S	Diamond,		Lifting piece of rock at face of chamber.
9	Anty Sincavage,	Lithuanian,	Timberman,	40	M	Diamond,		Struck by rail on gangway.
14	John Swet,	Russian,	Miner's laborer,	42	M	Diamond,		Fall of roof on gangway.
14	Andy Zapas,	Russian,	Miner,	31	M			
15	Adam Yascavage,	Polish,	Miner,	45	M	Diamond,		Fall of roof at face of chamber.
19	Mike Zenovich,	Polish,	Miner's laborer,	44	M	Diamond,		Blast at face of chamber.
Nov. 4	Thos. G. Thomas,	Welsh,	Carpenter,	36	M	Marvine,		Falling from ladder. Outside.
6	Jas. Casey,	American,	Laborer,	59	M	Eddy Creek,		Squeezed by mule in narrow place.
10	Angelo Pennoni,	Italian,	Miner,	23	S	Marvine,		Fall of top coal at face of chamber.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
14	Eli Weeks,	American,	Laborer,	64	M	Legitts Creek,		Struck by prop. Outside.
17	Jos. Llewellyn,	American,	Miner,	28	M	Legitts Creek,		Run over by cars at face of chamber.
18	Anty Rodnick,	Lithuanian,	Miner's laborer,	39	S	Cayuga,		Fall of roof at face of chamber.
29	Jos. Firgone,	American,	Laborer,	19	S	Von Storch,		Falling under car. Outside.
Dec. 3	Wm. J. Scull,	American,	Miner's laborer,	20	S	Marine,	Lackawanna	Fall of top rock while loading car.
8	Jos. Lukosky,	Lithuanian,	Miner,	45	M	Legitts Creek,		Fall of roof while loading car.
18	Michael Bodour,	Slavonian,	Miner,	54	M	Eddy Creek,		Fall of roof in chamber.
23	Mike Meley,	American,	Slatepicker,	17	S	Diamond,		Falling in breaker. Outside.
29	John Haggerty,	American,	Motorman,	26	M	Cayuga,		Derailed car on gangway.

1920

FOURTH DISTRICT

LACKAWANNA COUNTY

Jenkin T. Reese, Inspector, Scranton.

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	3
Mines in district,	12
Gaseous mines in operation,	10
Non-gaseous mines in operation,	2
Tons of coal shipped to market,	1,567,231
Tons used at mines for steam and heat,	224,184
Tons sold to local trade and used by employes,	115,908
Tons produced (gross),	1,907,323
Tons produced by electrical machines,	119,197
Persons employed inside,	2,886
Persons employed outside,	1,071
Persons employed inside between 16 and 21 years,	227
Persons employed outside between 14 and 21 years,	175
Fatal accidents inside,	7
Fatal accidents outside,	1
Serious non-fatal accidents inside,	41
Serious non-fatal accidents outside,	3
Tons produced per fatal accident inside,	272,475
Tons produced per fatal accident inside and outside,	238,415
Persons employed per fatal accident inside,	412
Persons employed per fatal accident outside,	1,071
Persons employed per fatal accident inside and outside,	495
Persons employed per non-fatal accident inside,	70
Persons employed per non-fatal accident outside,	357
Persons employed per non-fatal accident inside and outside,	90
Wives made widows,	6
Children made orphans,	12
Steam locomotives outside,	1
Electric motors inside,	43
Electric motors outside,	1
Cylindrical boilers,	14
Tubular boilers,	64
Steam engines of all classes,	112
Electric dynamos,	17
Pumps of all classes,	82
Pumps delivering water to surface,	21
Air compressors,	9
Fans in use,	16

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Scranton Coal Company,	595,903
Delaware, Lackawanna and Western Railroad Company,	357,599
Price-Pancoast Coal Company,	346,532
Pennsylvania Coal Company,	237,022
Hudson Coal Company,	172,777
Lackawanna Valley Fuel Company,	94,991
Green Ridge Coal Company,	50,609
Se Rob Coal Company,	25,280
Staples and Bell, Inc., and Dexter and Carpenter, Inc.,	18,723
Petersburg Coal Company,	7,887
Total,	1,907,323

Production by Counties

Lackawanna,	1,907,323

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Scranton Coal Co.,	4	------	4	18	------	18	148,976	33,106	1,155	320	1,475	289	----------	64	----------
Delaware, Lackawanna and Western Railroad Co.,	1	------	1	10	1	11	357,599	35,760	561	177	738	561	----------	56	177
Price-Pancoast Coal Co.,	2	------	2	8	1	9	173,266	43,317	487	198	685	244	----------	61	198
Pennsylvania Coal Co.,	------	------	------	1	1	2	----------	237,022	362	136	498	----------	----------	362	136
Hudson Coal Co.,	------	------	------	1	------	1	----------	172,777	153	73	226	----------	----------	153	----------
Lackawanna Valley Fuel Co.,	------	1	1	------	------	------	----------	----------	----------	49	49	----------	49	----------	----------
Green Ridge Coal Co.,	------	------	------	3	------	3	----------	16,870	90	49	139	----------	----------	30	----------
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	78	69	147	----------	----------	----------	----------
Totals and averages,	7	1	8	41	3	44	272,475	46,520	2,886	1,071	3,957	412	1,071	70	357

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Scranton Coal Co.,									
Pine Brook,	Lackawanna,	New County,	66	Shaft,	Gaseous,	6		14,238	
Delaware, Lackawanna and Western Railroad Co.									
Hyde Park,	Lackawanna,	Four Foot,	32	Slope,	Gaseous,	4		75,000	
		Five Foot,	48						
		Rock,	48	Shaft,	Gaseous,	1		15,000	
Totals,						5		90,000	
Pennsylvania Coal Co.									
Pennsylvania No. 5,	Lackawanna,	Dunmore No. 1,	30	Shaft,	Gaseous,	8		14,959	
Grand totals,						19		119,197	

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Scranton Coal Co. Pine Brook, Capouse, Mt. Pleasant,	Lackawanna,	John T. Cartwright,	Peckville,	John F. Cummings,	Scranton,	N. Y., O. & W.
Delaware Lackawanna and Western Railroad Co. Hyde Park, Brisbin Washery,	Lackawanna,	S. D. Dimmick,	Scranton,	George V. O'Hara, David Girvan,	Scranton, Dickson City,	D., L. & W.
Price-Pancoast Coal Co. Pancoast,	Lackawanna,	F. G. Wilcox,	Scranton,	John R. Bryden, Jr.,	Throop,	D., L. & W., & N. Y., O. & W.
Pennsylvania Coal Co. Pennsylvania No. 5,	Lackawanna,	W. P. Jennings,	Scranton,	H. E. Yewens,	Scranton,	Erie.
Hudson Coal Co. Manville,	Lackawanna,	R. Y. Williams,	Scranton,	Edw. McGlynn,	Scranton,	Delaware & Hudson,
Lackawanna Valley Fuel Co. Lackawanna Washery,	Lackawanna,	Frank Carlucci,	Scranton,	Edgar Anderson,	Scranton,	D. L. & W., O. & W.
Green Ridge Coal Co. Green Ridge,	Lackawanna,	W. L. Connell,	Scranton,	W. L. Connell,	Scranton,	Erie, D. & H.
Se-Rob Coal Co. Se-Rob,	Lackawanna,	W. F. Sekol,	Scranton,	S. W. Sekol,	Scranton,	D. L. & W.
Staples and Bell, Inc., and Dexter and Carpenter, Inc., Oxford Washery,	Lackawanna,	H. J. Mulherin,	Taylor,	Jas. O. Malley,	Scranton,	D. L. & W.
Petersburg Coal Co. Park,	Lackawanna,	Peter Stipp, Sr.,	Scranton,			None.
Peoples Coal Co. Oxford,*	Lackawanna,					

*Operations suspended March, 1920.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Scranton Coal Co.												
Pine Brook	Lackawanna,	390,423	31,863	21,582	443,868	279	904	1	12	375,000	45,500	12,500
Capouse,**	Lackawanna,	75,698	21,908	1,841	99,447	250	330	1	4	56,250	22,000	90,000
Mt. Pleasant,	Lackawanna,	37,393	12,434	2,761	52,588	214	241	2	2	78,125	8,750	49,000
Totals,		503,514	66,205	26,184	595,903	.....	1,475	4	18	509,375	76,250	151,500
Delaware, Lackawanna and Western Railroad Co.												
Hyde Park,	Lackawanna,	246,981	25,046	40,761	312,788	279	682	1	9	267,775	43,800	.....
Brisbin Washery,	Lackawanna,	17,882	26,929	.....	44,811	328	56	.....	1	.....	.....	.....
Totals,		264,863	51,975	40,761	357,599	.....	738	1	10	267,775	43,800	.....
Price-Pancoast Coal Co.												
Pancoast,	Lackawanna,	272,476	69,160	4,896	346,532	303	685	2	10	292,500	13,125	.....
Pennsylvania Coal Co.,												
Pennsylvania No. 5,	Lackawanna,	189,539	12,861	34,622	237,022	278	498	.....	2	169,150	.....	10,922
Hudson Coal Co.												
Manville,	Lackawanna,	161,932	10,845	.....	172,777	242	226	.....	1	X	X	X
Lackawanna Valley Fuel Co.												
Lackawanna Washery,	Lackawanna,	94,991	.....	.....	94,991	307	49	1	.....	.....	.....	.....

**Breaker burned August, 1920. Coal prepared at Johnson breaker, 6th District.
XIncluded in Dickson mine report, 3rd District.

Green Ridge Coal Co.													
Green Ridge,	Lackawanna,	35,168	6,358	9,083	50,609	205	139	--------	3	154	37,200	----------
Se Rob Coal Co.													
Se Rob,	Lackawanna,	25,019	----------	261	25,280	243	61	--------	--------	35,550	----------	----------
Staples and Bell, Inc., and Dexter and Carpenter, Inc.													
Oxford Washery,	Lackawanna,	11,842	6,780	101	18,723	93	60	--------	--------	----------	----------	----------
Petersburg Coal Co.													
Park,	Lackawanna,	7,887	----------	------	7,887	277	26	--------	--------	3,350	11,043	----------
Grand totals,	----------	1,567,231	224,184	115,908	1,907,323	--------	3,957	8	44	1,277,854	181,418	162,422

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Scranton Coal Co.,	Lackawanna,	12	180	31	4,045	44	3,950	----	--------	3	153	37	14,117	11	8,975	200	----	----	----	9	5	2,600
Delaware, Lackawanna and Western Railroad Co.		----	--------	5	1,250	11	1,563	----	--------	----	--------	6	3,170	----	--------	21	----	----	----	22	1	--------
Price-Pancoast Coal Co.,		----	--------	8	2,200	10	1,250	----	--------	2	2,000	12	10,000	4	4,200	80	----	----	----	2	2	2,400
Pennsylvania Coal Co.,		----	--------	6	900	16	1,200	----	--------	3	500	12	4,300	2	900	33	----	----	----	11	----	--------
Hudson Coal Co.,		----	--------	4	900	17	1,459	----	--------	----	--------	16	5,795	3	1,400	39	----	----	----	----	----	--------
Lackawanna Valley Fuel Co.		1	20	----	--------	----	--------	----	--------	7	186	3	1,200	----	--------	----	----	1	----	----	----	--------
Green Ridge Coal Co.,		----	--------	6	750	8	750	----	--------	1	50	----	--------	----	--------	18	----	----	----	----	1	145
Se Rob Coal Co.,		----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	4	----	----	----	----	----	--------
Staples and Bell, Inc., and Dexter and Carpenter, Inc.		----	--------	3	900	4	450	----	--------	1	110	2	500	1	250	----	----	----	----	----	----	--------
Petersburg Coal Co.,		1	35	1	150	2	185	----	--------	----	--------	----	--------	----	--------	1	----	----	----	----	----	--------
Totals,		14	235	64	11,095	112	10,767	----	--------	17	2,999	82	39,082	21	15,725	396	----	1	----	44	9	5,145

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Scranton Coal Co.,	Lackawanna,	3	5	11	385	210	2	8	15	15	228	22	6	38	21	9	37	140	1,155
Delaware, Lackawanna and Western Railroad Co.		1	6	1	178	200	*	------	22	38	------	15	4	7	4	8	9	68	561
Price-Pancoast Coal Co.,		3	------	9	120	136	------	------	2	2	64	8	3	9	16	3	11	101	487
Pennsylvania Coal Co.,		1	5	2	74	120	14	10	11	11	9	12	1	8	4	7	6	67	362
Hudson Coal Co.,		1	2	------	62	17	------	------	------	------	29	3	1	6	2	------	5	25	153
Lackawanna Valley Fuel Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	2	90
Green Ridge Coal Co.,		1	1	1	66	------	------	------	5	------	15	------	------	5	------	------	------	------	60
Se Rob Coal Co.,		1	1	1	25	21	------	------	------	------	4	2	2	2	------	------	1	------	
Staples and Bell, Inc., and Dexter and Carpenter, Inc.		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	
Petersburg Coal Co.,		1	------	------	7	8	------	------	------	------	------	------	------	1	------	------	------	1	18
Totals,		12	20	25	911	712	16	18	55	66	349	62	17	76	47	27	69	404	2,886

*Not reported.

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Scranton Coal Co.,	Lackawanna,	1	3	9	18	49	1	1	48	32	4	154	320	1,475
Delaware, Lackawanna and Western Railroad Co.		--------	3	4	20	15	1	--------	2	9	4	119	177	738
Price-Pancoast Coal Co.,		1	1	3	13	18	2	--------	12	17	2	129	198	685
Pennsylvania Coal Co.,		--------	1	2	7	9	2	--------	26	16	2	71	136	498
Hudson Coal Co.,		--------	1	2	3	12	--------	--------	--------	6	4	45	73	226
Lackawanna Valley Fuel Co.,		1	1	--------	2	2	1	--------	3	2	1	36	49	49
Green Ridge Coal Co.,		1	1	2	4	6	1	--------	7	--------	1	26	49	139
Se Rob Coal Co.,		--------	--------	--------	--------	--------	--------	--------	--------	--------	1	--------	1	61
Staples and Bell, Inc., and Dexter and Carpenter, Inc.		1	1	--------	--------	10	2	--------	2	1	1	42	60	60
Petersburg Coal Co.,		1	--------	1	--------	4	--------	--------	2	1	2	--------	8	26
Totals,		6	12	23	67	122	10	1	102	84	22	622	1,071	3,957

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Scranton Coal Co.,	Lackawanna.	24	20	22	20	21	23	23	19	11	22	20	23	248
Delaware, Lackawanna and Western Railroad Co.		26	23	26	20	24	26	26	25	11	24	22	26	279
Price-Pancoast Coal Co.,		26	24	26	24	25	26	26	26	25	25	25	25	309
Pennsylvania Coal Co.,		26	21	26	14	25	26	26	25	15	25	23	26	278
Hudson Coal Co.,		--------	--------	29	30	26	26	26	24	12	23	20	26	242
Green Ridge Coal Co.,		23	21	22	16	16	17	17	17	8	16	15	17	205
Se Rob Coal Co.,		--------	21	23	24	24	23	24	23	11	24	24	22	243
Petersburg Coal Co.,		24	20	24	25	23	24	25	24	24	20	24	20	277

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Mar. 2	Charles Rozinskie,	Polish,	Miner's laborer,	30	M	1	2	Pancoast,	Lackawanna	Explosion of gas at face of airway.
April 24	Peter Bechi,	Italian,	Miner's laborer,	28	S	------	------	Capouse,		Fall of top rock at face of chamber.
May 10	Dominick Veishello,	Lithuanian,	Miner's laborer,	28	M	1	3	Hyde Park,		Fall of top rock at face of chamber.
29	Jake Nagen,	Lithuanian,	Door-tender,	52	M	1	5	Pancoast,		Runaway cars on gangway.
Aug. 24	Herman Smith,	Polish,	Miner,	50	M	1	------	Mt. Pleasant,		Blast at face of chamber.
28	Gunter Gombl,	Austrian,	Miner's laborer,	45	M	1	------	Mt. Pleasant,		Blast at face of chamber.
Sept. 1	Joseph Spederovitch,	Russian,	Miner's laborer,	45	M	1	2	Pine Brook,		Fall of top rock at face of chamber.
Oct. 6	Jiess Napolia,	Italian,	Water boy,	16	S	------	------	Lackawanna Washery.		Machinery—dump scraper line. Outside.

TABLE 5.—Serious non-fatal accidents inside **and outside** (disability not less than 60 days)

Date		Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan.	9	Joe Kramich,	Polish,	Brakeman,	23	M	Pine Brook,		Derailed car on gangway.
	15	Peter Rogers,	Polish,	Miner's laborer,	26	M	Pine Brook,		Blast in chamber.
	19	Joseph Turnosky,	Austrian,	Miner,	29	M	Pancoast,		Fall of top rock in chamber.
	29	Mike Bolocher,	Slavonian,	Engineer,	25	S	Pancoast,		Derailed car on gangway.
Feb.	6	Thomas Flynn,	English,	Miner's laborer,	46	M	Hyde Park,		Fall of slate from side of chamber.
	12	Leslie Jones,	American,	Reel boy,	19	S	Hyde Park,		Car on gangway.
	27	Michael Boback,	Polish,	Brakeman,	23	M	Pine Brook,		Caught between car and motor on gangway.
Mar.	1	Mike Prushinski,	Polish,	Laborer,	40	M	Pancoast,		Lifting derailed car on gangway.
	25	Joseph Patrick,	Polish,	Driver,	18	S	Pine Brook,		Caught between cars on gangway.
April	7	Anthony Thurietski,	Polish,	Miner,	42	M	Pancoast,		Fall of top coal at face of chamber.
	9	Matthew Richards,	American,	Laborer,	34	S	Pennsylvania No. 5,		Car on gangway.
	14	John Mosiki,	Polish,	Miner,	34	M	Pine Brook,		Fall of top coal at face of chamber.
	20	Thomas Williams,	Welsh,	Miner,	55	M	Capouse,		Runaway cars on gangway.
May	6	Anthony Gaspodorlck	American,	Doorboy,	17	S	Pine Brook,		Cars on gangway.
	22	Joseph Reidenbach,	Polish,	Runner,	18	S	Pine Brook,		Cars on gangway—spragging.
	9	Thomas Barrett,	American,	Jig-tender,	29	M	Brisbin Washery,		Falling. Outside.
	25	John Faweett,	English,	Laborer,	54	M	Pancoast,		Piece of coal rolling off car in chamber.
	26	Michael Reincavitch,	Lithuanian,	Miner,	44	M	Manville,		Fall of top slate at face of chamber.
June	3	William Pedoneck,	Polish,	Driver,	19	S	Pine Brook,	Lackawanna	Cars on gangway—uncoupling.
	17	Steve Carmine,	Polish,	Brakeman,	23	M	Pine Brook,		Caught by car hook at bottom of shaft.
July	20	George Harris,	American,	Brakeman,	21	S	Hyde Park,		Caught between car and top of gangway.
	21	Ignatz Wormend,	Lithuanian,	Miner,	41	M	Hyde Park,		Blast at face of chamber.
		Paul Weiner,	Polish,	Miner's laborer,	44	M			
	24	Felix Loscavage,	Polish,	Miner,	31	M	Pine Brook,		Fall of roof at face of chamber.
	30	John Judge,	American,	Miner,	46	M	Capouse,		Fall of roof at face of chamber.
Aug.	2	Joseph Havrilla,	Slavonian,	Footman,	46	M	Pancoast,		Cage striking bottom of shaft with great force.
		Michael Kachiner,	Slavonian,	Trackman,	33	M			
	7	Nelson Anderson,	Swiss,	Miner,	30	M	Hyde Park,		Caught between car and rib in chamber.
	17	Anthony Ninas,	Lithuanian,	Miner,	30	S	Hyde Park,		Fall of top slate at face of chamber.
	21	William Callahan,	American,	Motor helper,	19	S	Hyde Park,		Cars on gangway—coupling.
	24	William Lepinski,	Polish,	Miner,	45	M	Mt. Pleasant,		Caught between car and rib of chamber.
Sept.	1	Michael Sevensky,	Polish,	Miner,	31	M	Green Ridge,		Fall of top slate at face of chamber.
		Richard Havard,	Welsh,	Foreman,	60	M	Green Ridge,		Falling on slope.
	24	Taffil Mankins,	Polish,	Miner's laborer,	26	M	Hyde Park,		Fall of top roof at face of chamber.
	25	Frank Rabel,	Slavonian,	Fireman,	26	S	Pancoast,		Scalded by steam from hot ashes in fire room. Outside.
Oct.	6	Michael Rowenski,	Polish,	Miner,	35	M	Pine Brook,		Car in chamber—spragging.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
26	Simon Boke,	Polish,	Miner,	29	M	Pine Brook,		Fall of top rock at face of chamber.
	Samuel Gulino,	Italian,	Miner's laborer,	44	M	Pancoast,		Car in chamber.
Nov. 12	Stanley Lipovita,	Lithuanian,	Miner's laborer,	43	M	Capouse,		Fall of top rock at face of chamber.
23	Arthur Williams,	American,	Runner,	19	S	Capouse,	Lackawanna	Caught between car and rib of gangway.
26	Frank Ball,	American,	Timberman,	40	S	Pennsylvania No. 5,		Struck by log in timber yard. Outside.
27	John Sanitski,	Slavonian,	Miner,	38	M	Pancoast,		Fall of top rock at face of chamber.
Dec. 15	Michael Kolessor,	Slavonian,	Miner,	38	M	Green Ridge,		Flying coal from blast back in cross-cut.
18	Jos. Yanosavage,	American,	Miner's laborer,	17	S	Mt. Pleasant,		Caught between cars on gangway.

1920

FIFTH DISTRICT

LACKAWANNA COUNTY

S. J. Phillips, Inspector, Scranton.

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	3
Mines in district,	16
Gaseous mines in operation,	6
Non-gaseous mines in operation,	9
Tons of coal shipped to market,	2,075,552
Tons used at mines for steam and heat,	201,911
Tons sold to local trade and used by employes,	76,277
Tons produced (gross),	2,353,740
Tons produced by electrical machines,	5,700
Persons employed inside,	3,628
Persons employed outside,	1,227
Persons employed inside between 16 and 21 years,	154
Persons employed outside between 14 and 21 years,	221
Fatal accidents inside,	22
Fatal accidents outside,	2
Serious non-fatal accidents inside,	43
Serious non-fatal accidents outside,	7
Tons produced per fatal accident inside,	106,988
Tons produced per fatal accident inside and outside,	98,073
Persons employed per fatal accident inside,	165
Persons employed per fatal accident outside,	614
Persons employed per fatal accident inside and outside,	202
Persons employed per non-fatal accident inside,	84
Persons employed per non-fatal accident outside,	175
Persons employed per non-fatal accident inside and outside,	97
Wives made widows,	18
Children made orphans,	62
Steam locomotives outside,	6
Electric motors inside,	97
Electric motors outside,	3
Tubular boilers,	48
Steam engines of all classes,	85
Electric dynamos,	12
Pumps of all classes,	89
Pumps delivering water to surface,	27
Air compressors,	19
Fans in use,	11

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Delaware, Lackawanna and Western Railroad Company,	1,761,105
Hudson Coal Company,	415,999
Scranton Anthracite Coal Company,	82,438
W. Y. Moffat,	40,465
John Gibbons Coal Company,	35,887
Black Diamond Fuel Company,	17,846
Total,	2,353,740

Production by Counties

Lackawanna,	2,353,740

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Delaware, Lackawanna and Western Railroad Co.,	13	2	15	33	7	40	135,470	53,367	2,742	909	3,651	211	455	83	130
Hudson Coal Co.,	5	------	5	5	------	5	83,200	83,200	634	238	872	127	----------	127	----------
Scranton Anthracite Coal Co.,	2	------	2	1	------	1	41,219	82,438	130	32	162	65	----------	130	----------
W. Y. Moffatt,	1	------	1	2	------	2	40,465	20,233	78	7	85	78	----------	39	----------
John Gibbons Coal Co.,	1	------	1	2	------	2	35,887	17,944	44	17	61	44	----------	22	----------
Black Diamond Fuel Co.,	------	------	------	------	------	------	----------	----------	----------	24	24	----------	----------	----------	----------
Totals and averages,	22	2	24	43	7	50	106,988	54,738	3,628	1,227	4,855	165	614	84	175

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Hudson Coal Co.									
Greenwood,	Lackawanna.	B or Dunmore No. 2,	29	Shaft,	Non-gas.,	2		5,700	
Delaware, Lackawanna and Western Railroad Co.**									

**Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Delaware, Lackawanna and Western Railroad Co.						
Bellevue,	Lackawanna,	S. D. Dimmick,	Scranton,	John R. James,	Scranton,	D., L. & W.
Dodge,				John R. James,	Scranton,	
Archbald,				George V. O'Hara,	Scranton,	
National,				H. E. Harris,	Scranton,	
Sloan,				George V. O'Hara,	Scranton,	
Continental, X						
Hampton Washery,				George V. O'Hara,	Scranton,	
Hampton Power Plant,				George V. O'Hara,	Scranton,	
Hudson Coal Co.						
Greenwood,	Lackawanna,	R. H. Buchanan,	Scranton,	Samuel Oakley,	Minooka,	Delaware & Hudson.
Greenwood Washery,						
Scranton Anthracite Coal Co.						
Oak Hill,	Lackawanna,	John F. O'Toole,	Scranton,	Joseph McCabe,	Minooka,	N. Y., S. & W.
W. Y. Moffat,						
Carleton,	Lackawanna,	P. J. Conaboy,	Minooka,	P. J. Conaboy,	Minooka,	L. & W. V.
John Gibbons Coal Co.						
Gibbons,	Lackawanna,	John Gibbons,	Scranton,	John Gibbons,	Scranton,	Delaware & Hudson.
Black Diamond Fuel Co.						
Black Diamond Washery,*	Lackawanna,	W. Gordon Thomas,	Scranton,			Delaware & Hudson.

X Idle since February, 1919, on account of mine fire.
* New operation.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Delaware, Lackawanna and Western Railroad Co.												
Bellevue,	Lackawanna,	349,131	29,949	58,307	437,387	281	922	5	8	290,525	58,211	----------
Dodge,		312,210	38,559	----------	350,769	278	637	3	7	343,400	91,008	----------
Archbald,		302,635	30,162	----------	332,797	278	816	----------	8	258,700	115,158	----------
National,		230,166	16,976	8,245	255,387	281	637	3	4	185,500	39,781	10,332
Sloan,		216,379	9,137	----------	225,516	281	444	1	4	267,100	37,190	----------
Continental, X		----------	----------	----------	----------	----------	----------	2‡	6‡	----------	----------	----------
		1,410,521	124,783	66,552	1,601,856	----------	3,456	14	37	1,345,225	341,348	10,332
Washeries,												
Hampton,		109,564	49,685	----------	159,249	213	62	----------	2	----------	----------	----------
Hampton Power Plant,		----------	----------	----------	----------	366	133	1	1	----------	----------	----------
		109,564	49,685	----------	159,249	----------	195	1	3	----------	----------	----------
Totals,		1,520,085	174,468	66,552	1,761,105	----------	3,651	15	40	1,345,225	341,348	10,332
Hudson Coal Co.												
Greenwood,	Lackawanna,	375,360	23,625	6,860	405,845	270	866	5	5	405,825	67,201	7,566
Greenwood Washery,		7,676	2,478	----------	10,154	270	6	----------	----------	----------	----------	----------
Totals,		383,036	26,103	6,860	415,999	----------	872	5	5	405,825	67,201	7,566
Scranton Anthracite Coal Co.												
Oak Hill,	Lackawanna,	81,398	1,040	----------	82,438	269	162	2	1	113,125	22,500	----------

W. Y. Moffat. Carleton, †	Lackawanna,	39,943	250	272	40,465	285†	85	1	2	23,500	1,800	12,325
John Gibbons Coal Co. Gibbons,	Lackawanna,	33,294		2,593	35,887	306	61	1	2	190	1,200	
Black Diamond Fuel Co. Black Diamond Washery,	Lackawanna,	17,796	50		17,846	307	24					
Grand totals,		2,075,552	201,911	76,277	2,353,740		4,855	24	50	1,887,865	434,049	30,223

X Idle on account of mine fire.
‡ Employes fighting fire.
† No breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	----	--------	41	15,297	61	7,322	----	--------	4	9,430	52	45,230	17	29,250	71	----	1	----	93	13	580
Hudson Coal Co.,		----	--------	6	1,350	24	2,395	----	--------	1	150	26	15,525	5	2,600	114	----	5	----	2	3	1,650
Scranton Anthracite Coal Co.,		----	--------	1	50	----	--------	----	--------	2	20	9	2,000	5	1,500	2	----	----	----	5	2	780
W. Y. Moffat,		----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	6	----	----	----	----	1	300
John Gibbons Coal Co.,		----	--------	----	--------	----	--------	----	--------	----	--------	2	100	----	--------	4	----	----	----	----	----	--------
Black Diamond Fuel Co.,		----	--------	----	--------	----	--------	----	--------	5	100	----	--------	----	--------	----	----	----	----	----	----	--------
Totals,	----------	----	--------	48	16,697	85	9,717	----	--------	12	9,700	89	62,855	27	33,350	197	----	6	----	100	19	3,310

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miner's laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	7	29	12	891	892	5	45	96	132	25	60	21	51	43	27	27	379	2,742
Hudson Coal Co.,		1	13	------	299	79	2	2	2	------	139	19	------	------	4	1	2	71	634
Scranton Anthracite Coal Co.,		1	2	2	56	35	------	------	7	6	8	2	2	1	6	------	2	------	130
W. Y. Moffat,		1	1	------	30	30	------	------	------	------	9	2	------	------	------	1	------	4	78
John Gibbons Coal Co.,		1	1	------	15	17	------	------	------	------	3	1	------	1	1	1	------	3	44
Black Diamond Fuel Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals,		11	46	14	1,291	1,053	7	47	105	138	184	84	23	53	54	30	31	457	3,628

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	5	10	14	67	78	12	1	162	12	18	530	909	3,651
Hudson Coal Co.,		1	2	9	18	35	6	2	-------	23	6	136	238	872
Scranton Anthracite Coal Co.,		1	1	1	2	2	1	1	6	1	1	15	32	162
W. Y. Moffat,		1	1	1	-------	1	-------	-------	-------	-------	-------	3	7	85
John Gibbons Coal Co.,		1	1	1	1	1	1	-------	6	-------	1	4	17	61
Black Diamond Fuel Co.,		1	1	-------	1	2	1	-------	-------	4	-------	14	24	24
Totals,		10	16	26	89	119	21	4	174	40	26	702	1,227	4,855

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	26	24	27	17	25	25	26	26	11	25	22	26	280
Hudson Coal Co.,	Lackawanna,	25	17	7	24	24	25	25	26	24	25	22	26	270
Scranton Anthracite Coal Co.,	Lackawanna,	26	24	26	5	27	25	27	26	15	26	15	27	269
W. Y. Moffat.	Lackawanna,	22	22	24	22	25	24	26	26	23	23	22	26	285
John Gibbons Coal Co.,	Lackawanna,	24	21	27	26	28	26	27	25	27	26	25	24	306

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 8	Thomas P. Griffiths,	Welsh,	Miner,	44	M.	1	3	Continental,	Lackawanna	Flying coal from blast at face of chamber.
9	Paul Demboski,	Polish,	Miner,	56	M.	1		Greenwood,		Fall of top coal at face of pillar.
	Frank Kobeski,	Polish,	Miner,	40	M.	1	6	Bellevue,		Explosion of gas in old workings.
	Michael Boyko,	Russian,	Miner,	31	M.	1	3			
15	John. Yonochiski,	Polish,	Miner,	42	M.	1	4	Bellevue,		Fall of roof at face of chamber.
17	William Davis,	American,	Miner's laborer,	38	M.	1	4	Sloan,		Explosion of gas on main gangway.
23	Frank Barkofski,	Polish,	Miner,	37	M.	1	2	Bellevue,		Premature blast at face of chamber.
31	Joseph Shober,	Slavonian,	Miner's laborer,	24	M.	1	3	Oak Hill,		Fall of roof at face of chamber.
March 5	John Aston,	Welsh,	Company man,	63	W.			Oak Hill,		Caught between car and door on gangway.
30	George W. Smith,	American,	Oiler,	35	M.	1		Dodge,		Caught in breaker machinery. Outside.
May 4	Powell Poplowski,	Polish,	Miner,	30	S.			Greenwood,		Fall of top rock at pillar work.
June 1	Martin Buffoni,	Italian,	Miner's laborer,	52	M.	1	5	Carleton,		Fall of top coal at pillar work.
9	Brian McGreevy,	Irish,	Miner,	48	M.	1	2	Bellevue,		Blast at face of chamber, while retreating.
16	Patsy Barillo,	Italian,	Miner's laborer,	27	M.	1	4	National,		Fall of roof at face of chamber.
19	Reese Griffiths,	American,	Laborer,	44	S.			Continental,		Falling timber on Big Vein road.
July 3	George Holup,	Polish,	Laborer,	35	S.			Hampton Washery,		
14	Alex Rutko,	Polish,	Miner,	25	S.			Greenwood,		Burned by ru h of hot culm. Outside.
28	Ralph DuMario,	Italian,	Miner's laborer,	43	M.	1	5	National,		Flying rock from blast while trying to break loose rock, at face of gangway.
Aug. 4	Thomas Buzzuti,	Italian,	Miner,	34	M.	1	3	National,		Fall of top coal at pillar work.
19	Martin Walsh,	American,	Miner,	31	M.	1	6	Greenwood,		Fall of roof from side of pillar.
Nov. 26	Joseph Sovociuski,	Polish,	Brakeman,	18	S.			Greenwood,		Fall of top rock at pillar work.
Dec. 6	Peter Branovitch,	Polish,	Miner,	40	M.	1	5	Dodge,		Cars on gangway.
9	John Wilcom,	German,	Miner,	57	M.	1	3	Gibbons,		Delayed blast at face of chamber.
20	Valentine Yanowski,	Polish,	Miner,	50	M.	1	4	Dodge,		Fall of coal from side of pillar.
										Fall of top slate in pillar.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or Single	Colliery	County	Cause of accident
Jan. 6	William Sheridan,	Irish,	Laborer,	19	M.	Gibbons,	Lackawanna	Lifting derailed car on gangway road.
7	Andrew Medley,	Scotch,	Laborer,	72	M.	Sloan,		Falling down shaft.
18	Joseph Boslo,	Italian,	Miner's laborer,	53	M.	Carleton,		Premature blast at face of chamber.
	Thomas O'Aoro,	Italian,	Miner,	37	M.			
22	Sidney Evans,	American,	Miner's laborer,	28	M.	Continental,		Fall of roof at face of chamber.
26	Peter Clifford,	American,	Sweeper,	28	M.	Bellevue,		Falling on timber pile. Outside.
29	Elmer Thomas,	American,	Loco. helper,	24	M.	Dodge,		Cars on gangway.
	William J. Evans,	Welsh,	Blacksmith,	31	M.	Sloan,		Mine cars. Outside.
Feb. 2	Steve Sovitch,	Slavonian,	Loader,	25	M.	Dodge,		Mine cars. Outside.
	Mike Mesco,	Austrian,	Laborer,	37	M.	Hampton Washery,		Caught in machinery. Outside.
7	Thomas Prosser,	American,	Miner's laborer,	39	M.	Continental,		Caught by nail—infection.
9	Stanley Cooklo,	Polish,	Miner,	33	M.	Bellevue,		Lifting car on gangway road.
23	Arthur Slug,	American,	Laborer,	18	S.	Continental,		Falling on ice in slope.
26	Frank Deano,	Italian,	Miner,	40	M.	National,		Fall of top slate in chamber.
March 1	Frank Baraski,	Polish,	Miner,	32	M.	Archbald,		Fall of top rock at face of chamber.
3	Thomas Checorski,	Russian,	Miner,	51	M.	Greenwood,		Fall of top rock at face of chamber.
15	Joseph Yanitski,	Polish,	Miner,	31	M.	Archbald,		Car on slope.
20	Griffith James,	Welsh,	Laborer,	48	M.	Bellevue,		Unhitching mule. Outside.
21	Michael Hominick,	Slavonian,	Miner's laborer,	36	M.	Dodge,		Fall of top rock at face of chamber.
25	Leo Voitach,	Polish,	Laborer,	40	M.	Bellevue,		Caught by rail while carrying it along gangway.
April 9	Alex Wastromenski,	Polish,	Miner,	26	M.	Bellevue,		Falling on top of car at face of chamber.
28	Charles Fanery,	American,	Miner's laborer,	26	S.	Archbald,		Fall of top rock at face of chamber.
May 12	Paul Bretski,	Polish,	Miner's laborer,	35	M.	Dodge,		Fall of coal from side of chamber.
15	Thomas Soloski,	Polish,	Brakeman,	22	S.	Archbald,		Lifting timber on gangway.
18	William Dermond,	Polish,	Laborer,	41	M.	Greenwood,		Struck by rope on main haulage road.
19	John Barry,	Irish,	Pumpman,	50	M.	National,		Fall of top rock on gangway.
27	Frank Yansick,	Polish,	Laborer,	37	M.	Continental,		Caught between cars on gangway.
June 5	Ermino Lawrentl,	Italian,	Miner,	44	M.	Bellevue,		Explosion of powder at face of chamber
7	Joseph Corrende,	Italian,	Miner,	30	M.	Hampton Power Plant,		Struck by brick. Outside.
26	George Woehrle,	American,	Miner's laborer,	32	M.	Continental,		Scalded by putting water on burning timber at face of chamber.
28	Bronik Dobjinski,	Polish,	Miner,	33	S.	Bellevue,		Fall of top rock at face of chamber.
July 3	Joseph Lagrochl,	Italian,	Miner,	52	M.	National,		Fall of top rock at face of chamber.
7	Anthony Poyeski,	Polish,	Miner's laborer,	40	M.	Archbald,		Fall of top rock at face of chamber.
22	Joseph Stanchefski,	Polish,	Miner,	60	M.	Dodge,		Fall of top rock at face of chamber.
23	Ignatz Rubinski,	Polish,	Miner's laborer,	50	M.	Dodge,		Fall of top coal at face of chamber.

TABLE 5.—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
July 23	George Orzel,	Polish,	Footman,	22	S.	Archbald,	Lackawanna	Cars at foot of shaft.
26	Felix Philkoski,	Polish,	Miner's laborer,	36	M.	Archbald,		Lifting piece of rock at face of chamber.
31	Joseph Forish,	Polish,	Miner's laborer,	25	M.	Archbald,		Fall of top rock at face of chamber.
Aug. 3	Anthony Ford,	American,	Brakeman,	24	M.	Sloan,		Car on gangway.
6	Charles Sago,	Italian,	Miner's laborer,	26	M.	Greenwood,		Coal-cutting machine at face of chamber.
Aug. 14	James Rowles,	English,	Laborer,	54	M.	Dodge,		Falling on gangway.
22	Walter Humphries,	American,	Laborer,	33	M.	Continental,		Cars on gangway.
25	Andrew Bushak,	Polish,	Miner,	40	M.	Oak Hill,		Blast back in chamber.
Oct. 1	Andrew Dardis,	Polish,	Miner's laborer,	35	S.	Bellevue,		Flying coal from pick at face.
8	Patrick Saturday,	Italian,	Laborer,	42	M.	Hampton Washery,		Machinery. Outside.
22	Wadislaw Killanski,	Polish,	Miner,	40	M.	Greenwood,		Burned by explosion of powder 50 feet from face.
26	Jos. Smith,	Polish,	Miner,	40	M.	Sloan,		Fall of roof from rib.
Nov. 5	Jno. Nowalk,	Polish,	Miner,	35	M.	Gibbons,		Fall of top coal at pillar.
15	Geo. Fox,	Welsh,	Assistant mine foreman,	63	M.	Greenwood,		Cars on gangway.
Dec. 13	Anty. Posquline,	Italian,	Miner,	59	M.	National,		Fall of top coal at pillar.

1920

SIXTH DISTRICT

LACKAWANNA COUNTY

D. T. Williams, Inspector, Scranton.

SUMMARY OF STATISTICS

Collieries in operation (breakers),	12
Washeries in operation,	1
Mines in district,	33
Gaseous mines in operation,	11
Non-gaseous mines in operation,	22
Tons of coal shipped to market,	3,339,617
Tons used at mines for steam and heat,	184,033
Tons sold to local trade and used by employes,	81,450
Tons produced (gross),	3,605,100
Tons produced by electrical machines,	252,556
Persons employed inside,	4,839
Persons employed outside,	1,696
Persons employed inside between 16 and 21 years,	303
Persons employed outside between 14 and 21 years	316
Fatal accidents inside,	14
Fatal accidents outside,	2
Serious non-fatal accidents inside,	48
Serious non-fatal accidents outside,	12
Tons produced per fatal accident inside,	257,507
Tons produced per fatal accident inside and outside,	225,319
Persons employed per fatal accident inside,	346
Persons employed per fatal accident outside,	848
Persons employed per fatal accident inside and outside,	408
Persons employed per non-fatal accident inside,	101
Persons employed per non-fatal accident outside,	141
Persons employed per non-fatal accident inside and outside,	109
Wives made widows,	12
Children made orphans,	44
Steam locomotives outside,	17
Electric motors inside,	127
Electric motors outside,	8
Cylindrical boilers,	6
Tubular boilers,	81
Steam engines of all classes,	159
Electric dynamos,	26
Pumps of all classes,	147
Pumps delivering water to surface,	31
Air compressors,	9
Fans in use,	20
New mines opened,	1

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Pennsylvania Coal Company,	1,267,847
Delaware, Lackawanna and Western Railroad Company,	792,947
Hudson Coal Company,	773,461
Scranton Coal Company,	266,582
Mount Jessup Coal Company, Limited,	164,047
Quinn Coal Company,	119,837
Spencer Coal Company,	62,292
Nay-Aug Coal Company,	60,671
Bald Mountain Coal Company,	50,871
Carney and Brown Coal Company,	30,671
John J. Boland Coal Company,	8,333
Scranton Anthracite Coal Company,	7,541
Total,	3,605,100

Production by Counties

Lackawanna,	3,605,100

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident in ide	Em-ploye inside	Em-ploye outside	Total number of em-ploye	Em-ploye inside per fatal accident	Em-ploye outside per fatal accident	Em-ploye inside per non-fatal accident	Em-ploye outside per non-fatal accident
	In-side	Out-side	To-tal	In-side	Out-side	To-tal									
Pennsylvania Coal Co.,	5	------	5	8	2	10	253,569	158,481	1,421	554	1,975	284	----------	178	277
Delaware, Lackawanna and Western Railroad Co.,	2	1	3	17	5	22	396,474	46,644	1,159	253	1,412	579	253	68	50
Hudson Coal Co.,	2	------	2	11	1	12	386,731	70,316	990	361	1,351	495	----------	90	261
Scranton Coal Co.,	3	------	3	6	2	8	88,861	44,430	456	274	730	152	----------	76	137
Mount Jessup Coal Co., Limited,	1	------	1	------	2	2	164,047	----------	247	84	331	247	----------	----------	42
Quinn Coal Co.,	------	1	1	------	------	------	----------	----------	51	43	94	----------	43	----------	----------
Spencer Coal Co.,	1	------	1	2	------	2	62,292	31,146	140	30	170	140	----------	70	----------
Nay-Aug Coal Co.,	------	------	------	2	------	2	----------	30,335	128	36	164	----------	----------	64	----------
John J. Boland Coal Co.,	------	------	------	1	------	1	----------	8,333	21	7	28	----------	----------	21	----------
Scrantou Anthracite Coal Co.,	------	------	------	1	------	1	----------	7,541	68	1	69	----------	----------	68	----------
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	158	53	211	----------	----------	----------	----------
Totals and averages,	14	2	16	48	12	60	257,507	75,107	4,839	1,696	6,535	346	848	101	141

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Pennsylvania Coal Co.									
Underwood,	Lackawanna,	F—Rock,	108	Shaft,	Gaseous,	2		40,250	
		E—Pittston,	72	Shaft,	Gaseous,	2		19,110	
		C—Clark,	84	Shaft,	Gaseous,	5		50,414	
		B—Dunmore No. 2	52	Shaft,	Gaseous,	2		43,204	
		B—Dunmore No. 3	50	Shaft,	Gaseous,	10		77,958	
Totals,						21		230,936	
Delaware, Lackawanna and Western Railroad Co.									
Storrs,	Lackawanna,	B—Dunmore No. 3	36	Shaft,	Gaseous,	1		3,420	
Hudson Coal Co.									
Olyphant,	Lackawanna,	D—New County,	50	Shaft,	Gaseous,	1		2,500	
		C—Bottom Clark,	42	Shaft,	Gaseous,	1		8,700	
Totals,						2		11,200	
Scranton Coal Co.									
Johnson,	Lackawanna,	B—Dunmore No. 2	38	Shaft,	Gaseous,	1		7,000	
Grand totals,						25		252,556	

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Pennsylvania Coal Co. Pennsylvania No. 1, Underwood,	Lackawanna,	W. P. Jennings,	Scranton,	H. E. Yewens, William Jeffrey,	Dunmore, Throop,	Erie
Delaware, Lackawanna and Western Railroad Co. Storrs,	Lackawanna,	S. D. Dimmick,	Scranton,	David Girvan,	Dickson City,	D. L. & W.
Hudson Coal Co. Olyphant, Olyphant Washery,**	Lackawanna,	R. Y. Williams,	Scranton,	S. E. Van Horn,	Scranton,	Delaware & Hudson
Scranton Coal Co. Johnson, Richmond No. 3,	Lackawanna,	John Cartwright,	Scranton,	John J. Aitken,	Priceburg,	N. Y., O. & W.
Mount Jessup Coal Co., Limited Mount Jessup No. 1,	Lackawanna,	Edward H. Ford,	Peckville,	William X Jones,	Peckville,	D., L. & W.; Erie; N. Y. O. & W.; D. & H.
Quinn Coal Co. No. 6, No. 6 Washery,	Lackawanna,	Thomas F. Quinn,	Scranton,	M. J. Rafferty,	Scranton,	Erie
Spencer Coal Co. Spencer,	Lackawanna,	David Spruks,	Scranton,	Jonathan Vipond,	Scranton,	Erie.
Nay-Aug Coal Co. Nay-Aug,	Lackawanna,	John A. Hines,	Pittston,			Erie
Bald Mountain Coal Co. Marshwood,	Lackawanna,	Charles H. Ford,	Marshwood,	Edward H. Ford,	Peckville,	D. L. & W.; Erie

** Idle.

TABLE 1.—Continued

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Carney and Brown Coal Co.						
Carney and Brown,	Lackawanna,	John Carney,	Dunmore,	John J. Brown,	Dunmore,	D. L. & W.
John J. Boland Coal Co.						
Boland,	Lackawanna,	John J. Boland,	Dunmore,			Erie
Scranton Anthracite Coal Co.						
Blakely,*	Lackawanna,	M. J. Rafferty,	Scranton,	John F. O'Toole,	Scranton,	D., L. & W.; Erie
Staples and Bell, Inc. and Dexter and Carpenter, Inc.						
Grassy Island Washery,**						

* New operation.
** Idle.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Pennsylvania Coal Co.												
Pennsylvania No. 1,	Lackawanna,	670,695	23,196	2,324	696,215	279	1,079	2	6	608,825	----------	114,610
Underwood,	Lackawanna,	530,920	33,967	6,745	571,632	295	896	3	4	376,525	----------	114,610
Totals,		1,201,615	57,163	9,069	1,267,847	--------	1,975	5	10	985,350	----------	229,220
Delaware, Lackawanna and Western Railroad Co.												
Storrs,	Lackawanna,	715,974	51,567	25,406	792,947	291	1,412	3	22	1,030,400	94,229	----------
Hudson Coal Co.												
Olyphant,	Lackawanna,	733,909	15,590	23,962	773,461	297	1,351	2	12	763,340	----------	127,337
Scranton Coal Co.												
Johnson,	Lackawanna,	156,564	37,895	4,025	198,484	258	463	3	6	40,000	18,500	----------
Richmond No. 3,	Lackawanna,	46,793	16,726	4,579	68,098	176	267	--------	2	70,000	41,000	----------
Totals,		203,357	54,621	8,604	266,582	--------	730	3	8	110,000	59,500	----------
Mount Jessup Coal Co., Limited												
Mount Jessup No. 1,	Lackawanna,	161,746	1,821	480	164,047	296	331	1	2	297	95,084	----------
Quinn Coal Co.												
No. 6,	Lackawanna,	14,365	----------	----------	14,365	288	94	--------	--------	----------	----------	6,175
No. 6 Washery,	Lackawanna,	105,472	----------	----------	105,472	*	*	1	--------	----------	----------	----------
Totals,		119,837	----------	----------	119,837	--------	94	1	--------	----------	----------	6,175
Spencer Coal Co.												
Spencer,	Lackawanna,	55,409	1,500	5,383	62,292	267	170	1	2	2,250	14,925	----------

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Nay-Aug Coal Co.												
Nay-Aug,	Lackawanna,	59,803	868	----------	60,671	267	164	--------	2	3,750	7,041	----------
Bald Mountain Coal Co.												
Marshwood,**	Lackawanna,	50,133	578	160	50,871	279	136	--------	--------	14,375	13,750	----------
Carney and Brown Coal Co.												
Carney and Brown,	Lackawanna,	25,554	300	4,817	30,671	235	75	--------	--------	17,500	2,900	2,650
John J. Boland Coal Co.												
Boland,	Lackawanna,	4,739	25	3,569	8,333	219	28	--------	1	2,500	625	700
Scranton Anthracite Coal Co.												
Blakely,***	Lackawanna,	7,541	----------	--------	7,541	178	69	--------	1	2,000	1,775	3,775
Grand totals,		3,939,617	184,033	81,450	3,005,100	--------	6,535	16	60	2,931,762	289,829	369,857

* Included with Colliery.
**Coal prepared at Mount Jessup No. 1 breaker, Mount Jessup Coal Co.
***Coal prepared at Lackawanna breaker, Lackawanna Coal Co., Limited, 1st District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant: Boilers: Cylindrical: Number	Power plant: Boilers: Cylindrical: Total horse power	Power plant: Boilers: Tubular: Number	Power plant: Boilers: Tubular: Total horse power	Power plant: Engines: Steam engines (all classes): Number	Power plant: Engines: Steam engines (all classes): Total horse power	Power plant: Engines: Internal combustion engines (gas): Number	Power plant: Engines: Internal combustion engines (gas): Total horse power	Power plant: Engines: Electric dynamos (all classes): Number	Power plant: Engines: Electric dynamos (all classes): Total kilowatts	Pumps: Total number	Pumps: Total capacity in gallons per minute	Pumps: Pumps delivering water to the surface: Number	Pumps: Pumps delivering water to the surface: Approximate number of gallons per minute	Haulage: Horses and mules	Haulage: Locomotives: Gasoline	Haulage: Locomotives: Steam	Haulage: Locomotives: Air	Haulage: Locomotives: Electric	Air compressors: Number	Air compressors: Total capacity in cubic feet per minute
Pennsylvania Coal Co.,	Lackawanna,	----	----	24	5,850	32	5,600	----	----	4	3,250	43	10,900	7	5,500	45	----	----	----	73	2	1,500
Delaware, Lackawanna and Western Railroad Co.,		6	810	8	2,400	14	5,898	----	----	----	----	22	6,000	3	3,000	35	----	----	----	34	4	600
Hudson Coal Co.,		----	----	18	6,790	69	10,284	----	----	5	4,800	33	18,190	6	1,800	100	----	10	----	24	----	----
Scranton Coal Co.,		----	----	24	3,650	41	9,695	----	----	4	406	39	20,295	11	6,860	89	----	4	----	4	2	396
Mount Jessup Coal Co., Limited,		----	----	----	----	----	----	----	----	----	----	5	2,300	2	1,000	21	----	2	----	----	----	----
Quinn Coal Co.,		----	----	----	----	----	----	----	----	----	----	2	560	----	----	5	----	----	----	----	----	----
Spencer Coal Co.,		----	----	1	150	----	----	----	----	----	----	3	1,000	1	50	13	----	----	----	----	1	90
Nay-Aug Coal Co.,		----	----	2	160	----	----	----	----	13	320	----	----	----	----	26	----	----	----	----	----	----
Bald Mountain Coal Co.,		----	----	----	----	----	----	----	----	----	----	----	----	1	750	11	----	1	----	----	----	----
Carney and Brown Coal Co.,		----	----	4	480	3	250	----	----	----	----	----	----	----	----	13	----	----	----	----	----	----
John J. Boland Coal Co.		----	----	----	----	----	----	----	----	----	----	----	----	----	----	6	----	----	----	----	----	----
Scranton Anthracite Coal Co.,		----	----	----	----	----	----	----	----	----	----	----	----	----	----	4	----	----	----	----	----	----
Totals,	----	6	810	81	19,480	159	31,727	----	----	26	8,776	147	59,245	31	18,960	368	----	17	----	135	9	2,586

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiecmen	Timbermen and rockmen	Pumpmen and pipe men	Electricians	Doorboys	All other employes	Total inside
Pennsylvania Coal Co.,	Lackawanna,	8	16	2	605	308	------	12	67	69	32	46	9	12	13	23	5	194	1,421
Delaware, Lackawanna and Western Railroad Co.,		4	20	5	472	317	------	2	35	45	23	39	12	31	14	10	17	113	1,159
Hudson Coal Co.,		2	13	12	341	253	1	2	22	26	119	8	------	3	5	2	28	153	990
Scranton Coal Co.,		2	3	6	184	81	1	1	3	1	69	7	2	10	20	1	10	54	456
Mount Jessup Coal Co., Limited,		1	2	------	103	74	------	------	------	------	33	4	------	------	7	------	5	18	247
Quinn Coal Co.,		1	1	------	25	20	------	------	------	------	3	------	------	------	------	1	------	------	51
Spencer Coal Co.,		1	1	1	41	45	------	------	5	------	12	2	2	2	2	1	------	25	140
Nay-Aug Coal Co.,		1	2	------	51	53	------	------	2	1	15	2	------	1	------	------	------	------	128
Bald Mountain Coal Co.,		1	------	------	32	20	------	------	------	------	12	2	1	5	2	------	1	36	112
Carney and Brown Coal Co.,		1	2	------	15	13	------	------	------	------	8	2	------	3	------	------	------	4	46
John J. Boland Coal Co.,		1	------	------	8	8	------	------	------	------	2	1	------	1	------	------	------	------	21
Scranton Anthracite Coal Co.		1	1	------	28	33	------	------	------	------	3	------	------	------	------	------	------	2	68
Totals,		24	61	26	1,905	1,225	2	17	135	142	329	113	26	68	63	38	66	599	4,839

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Pennsylvania Coal Co.,	Lackawanna,	2	2	8	53	47	23	14	69	15	7	314	554	1,975
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	1	2	4	30	22	4	1	19	14	5	151	253	1,412
Hudson Coal Co.,	Lackawanna,	2	3	8	7	47	22	1		44	8	269	361	1,351
Scranton Coal Co.,	Lackawanna,	1	2	7	12	68	6	3	55	16	2	102	274	730
Mount Jessup Coal Co., Limited,	Lackawanna,	1	1	2	7	6	2	2	11	2	2	48	84	331
Quinn Coal Co.,	Lackawanna,	1	1		4	2			2	5		28	43	94
Spencer Coal Co.,	Lackawanna,	1	1	1	3	2	1				2	19	30	170
Nay-Aug Coal Co.,	Lackawanna,	1	1	1	1	2	1		5	1	2	21	36	164
Bald Mountain Coal Co.,	Lackawanna,	1	1	1	2	2	1	1			1	14	24	136
Carney and Brown Coal Co.,	Lackawanna,	1	1	1		4			10		1	11	29	75
John J. Boland Coal Co.,	Lackawanna,	1	1		1		1			3			7	28
Scranton Anthracite Coal Co.	Lackawanna,					1							1	69
Totals,		13	16	33	120	203	61	22	171	100	40	917	1,696	6,535

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Pennsylvania Coal Co.,	Lackawanna,	27	20	29	15	25	27	26	24	20	25	23	26	287
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna,	27	26	28	17	27	27	26	26	14	25	22	26	291
Hudson Coal Co.,	Lackawanna,	26	21	26	24	25	25	26	26	25	25	22	26	297
Scranton Coal Co.,	Lackawanna,	14	18	18	19	18	18	20	20	15	19	18	20	217
Mount Jessup Coal Co., Limited,	Lackawanna,	27	22	27	20	24	26	25	27	25	24	25	26	296
Quinn Coal Co.,	Lackawanna,	22	20	22	23	26	27	24	26	25	26	24	23	288
Spencer Coal Co.,	Lackawanna,	26	16	25	16	25	25	25	19	15	25	24	26	267
Nay-Aug Coal Co.,	Lackawanna,	26	18	25	15	25	25	26	19	14	25	23	26	267
Bald Mountain Coal Co.,	Lackawanna,	25	21	25	17	24	24	24	26	25	21	22	25	279
Carney and Brown Coal Co.,	Lackawanna,	24	17	21	11	24	22	23	16	13	22	20	22	235
John J. Boland Coal Co.,	Lackawanna,	26	19	21	--------	23	--------	4	25	24	26	25	26	219
Scranton Anthracite Coal Co.,	Lackawanna,	--------	--------	--------	--------	--------	25	26	26	25	27	24	25	178

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 12	Andrew Bakus,	Slavonian,	Miner,	32	M.	1	4	Underwood,	Lackawanna	Fall of roof at face of chamber—cleaning road after blast.
Mar. 16	Angelo Seigle,	Italian,	Laborer,	55	M.	1	4	No. 6 Washery,		Caught in gear wheel that operates conveyor line. Outside.
Apr. 21	George Freeman,	English,	Rockman,	35	S.			Storrs,		Asphyxiated by gas produced by explosion of gelatine powder in shaft.
May 3	Stanley Saya,	Polish,	Miner's laborer,	32	S.			Johnson,		Fall of roof rock at face of pillar.
	Paul Takoskey,	Polish,	Miner,	36	M.	1	6	Underwood,		Fall of top coal at face of cross-cut.
7	Michael Sabol,	Austrian,	Miner,	29	M.	1	2	Johnson,		Premature blast at face of airway.
12	Kostef Mikievier,	Polish,	Miner,	45	M.	1	7	Pennsylvania No. 1,		Struck by car near face of chamber.
June 4	Ignatz Suscavage,	Russian,	Miner's laborer,	30	M.	1	2	Storrs,		Fall of roof at face of airway while preparing to restand prop.
5	Sylvester Belonocky,	Russian,	Miner,	41	M.	1	3	Olyphant,		Fall of roof near face of chamber while restanding prop.
July 1	John L. Davis,	American,	Blacksmith,	50	S.			Storrs,		Struck by piece of steel when cylinder exploded in blacksmith shop. Outside.
Aug. 13	Steve Clemas,	Russian,	Miner,	51	M.	1		Johnson,		Fall of coal at face of pillar.
Oct. 7	Tony Swartoskie,	Polish,	Miner's laborer,	38	M.	1	4	Penna. No. 1,		Fall of top coal at face of chamber.
Nov. 10	Larry Parylla,	Polish,	Miner,	45	M.	1	6	Underwood,		Caught in picks of coal-cutting machine at face of chamber.
19	Charles Nemitz,	Slavonian,	Miner,	54	M.	1	5	Olyphant,		Fall of roof at face of pillar.
Dec. 7	John Parsi,	Slavonian,	Miner's laborer,	45	M.	1	1	Spencer,		Runaway cars at foot of inside slope.
8	Baldo Sylvester,	Italian,	Miner,	26	S.			Mt. Jessup No. 1.,		Fall of roof at face of chamber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 2	Andrew Novack,	Hungarian,	Laborer,	37	M	Johnson,		Slide of culm. Outside.
9	Stephen Pandock,	Austrian,	Miner,	55	M	Storrs,		Premature rock blast.
14	John Lock,	Austrian,	Miner,	34	M	Olyphant,		Caught between derailed car and rock rib.
15	Orillio Horti,	Italian,	Miner,	25	S	Nay-Aug,		Caught between rope and pulley.
19	George Kerno,	Russian,	Fireman,	57	M	Storrs,		Burned by steam. Outside.
Feb. 9	Frank Durvass,	Austrian,	Miner,	47	M	Underwood,		Fall of top coal at face of chamber.
14	Tony Occhipinti,	Italian,	Driver,	17	S	Pennsylvania No. 1,		Kicked by mule.
18	Jacob O'Laska,	Polish,	Miner,	49	M	Storrs,		Flying coal from delayed blast.
25	Leander Bennett,	American,	Laborer,	54	M	Underwood,		Caught between bumpers of mine cars. Outside.
Mar. 12	William Bieirs,	German,	Miner,	24	M	Pennsylvania No. 1,		Explosion of powder—pushing into hole.
	Valentine Waytera,	German,	Miner,	36	M			
15	Joseph Fletcher,	American,	Laborer,	18	S	Underwood,		Caught between mine car and shop door. Outside.
16	Thomas Ferguson,	American,	Miner's laborer,	23	M	Olyphant,		Fall of roof rock.
17	Richard Matsick,	Lithuanian,	Driver,	18	S	Richmond No. 3,		Caught between cars.
	James Johnson,	American,	Laborer,	17	S	Mount Jessup No. 1,		Caught in conveyor line. Outside.
20	John Thomas,	American,	Driver,	19	S	Storrs,		Mule falling on him.
24	Michael Kemace,	Slavonian,	Miner,	28	S	Storrs,	Lackawanna	Premature blast.
29	Leonard Roberts,	American,	Motorman's asst.	21	S	Storrs,		Caught beneath motor.
30	Joseph Cirba,	Slavonian,	Miner,	27	S	Olyphant,		Flying coal from blast.
April 7	Michael Jodik,	Russian,	Miner,	33	M	Olyphant,		Caught between rope and pulley.
	Andrew Babisk,	Polish,	Miner's laborer,	64	M	Johnson,		Fall of roof at face of pillar place.
14	Edward Austin,	American,	Doorboy,	17	S	Olyphant,		Falling while running to open door.
May 7	Alex. Mosacavage,	Russian,	Miner's laborer,	29	M	Johnson,		Flying coal from blast.
12	Joseph Derrico,	Italian,	Miner's laborer,	47	M	Pennsylvania No. 1,		Fall of roof at pillar place.
17	Anthony Sikooski,	Polish,	Miner,	29	M	Storrs,		Premature blast.
25	John Czura,	Russian,	Pumpman,	43	S	Underwood,		Caught in gear wheel of electric pump.
June 2	Charles Nolich,	Polish,	Miner,	40	M	Spencer,		Fall of roof at pillar place.
7	George W. Cook,	American,	Asst. mine foreman,	34	S	Storrs,		Squeezed between car and prop.
14	Nicholas Bocarro,	Italian,	Laborer,	26	S	Storrs,		Falling into cave hole. Outside.
15	John Pandock,	Austrian,	Motorman's asst.	19	S	Storrs,		Burned by gas.
21	Joseph Fontanilli,	Italian,	Miner's laborer,	45	M.	Spencer,		Fall of roof at pillar place.
22	Thomas Craig,	Irish,	Miner's laborer,	58	M.	Olyphant,		Fall of roof
29	Thomas Aston,	American,	Footman,	25	M.	Storrs,		Thrown against rib by mule.
July 1	John Jones,	American,	Blacksmith,	18	S.	Storrs,		Struck by piece of steel when air cylinder exploded in black mith shop. Outside.
	Edward Morgan,	American,	Blacksmith,	23	S.			
7	John Gawlinsky,	Polish,	Miner,	45	M.	Johnson,		Fall of roof.
9	Albert Kazmarski,	Polish,	Miner's laborer,	29	M.	Storrs,		Falling while loading car.

July	15	Anthony Yanochat,	Lithuanian.	Miner,	60	M.	Richmond No. 3,			Fall of roof.
Aug.	10	Peter Blasko,	Polish,	Miner,	33	M.	Storrs,			Fall of roof.
	13	Walter Serwinski,	Polish,	Miner,	42	M.	Johnson,			Coal crushed from pillar.
	14	Anthony Hodk,	Polish,	Miner,	31	M.	Olyphant,			Fall of top coal.
	27	Frank Maroskey,	Polish,	Miner's laborer,	36	S.	Blakely,			Fall of slate roof.
Sept.	7	Clarence Frederick,	American,	Runner,	20	S.	Olyphant,			Caught between car and motor.
	25	Michael Turack,	American,	Company man,	24	S.	Olyphant,			Caught by car while snubbing.
Oct.	1	Benny Stashum,	Polish,	Miner,	28	M.	Storrs,			Fall of roof.
	2	Oliver R. Clark,	American,	Jig-tender,	17	S.	Storrs,			Struck by jig in breaker. Outside.
		John Occhipinti,	Italian,	Miner,	26	M.	Pennsylvania No. 1,			Fall of roof.
	8	William Donivan,	Irish,	Miner,	51	M.	Storrs,			Fall of roof.
	18	Frank Lemongo,	Polish,	Miner's laborer,	50	M.	Pennsylvania No. 1,			Falling against car.
	22	Martin Huntly,	American,	Laborer,	33	M.	Johnson,	Lackawanna		Falling in conveyor line. Outside.
		Alexander Dombofski,	Polish,	Motor brakeman,	22	S.	Storrs,			Caught between car bumpers.
Nov.	4	William Burke,	American,	Driver,	32	S.	Boland,			Kicked by mule.
	16	Anthony Androchicki,	Polish,	Miner,	31	M.	Storrs,			Burned by gas.
	26	Cipryon Lackiewics,	Polish,	Miner,	51	M.	Nay-Aug,			Fall of roof at pillar place.
Dec.	8	Paul Stessney,	Polish,	Miner,	44	M.	Storrs,			Explosion of charge of dynamite, with lighted fuse attached, which they were pushing over roof.
		Anthony Woodcavitch	Polish,	Miner's laborer,	49	M.				
	11	Joseph Zaguraki,	Austrian,	Motor brakeman,	19	S.	Olyphant,			Caught between bumpers of cars.
		Joseph Carney,	American,	Runner,	31	S.	Mount Jessup No. 1,			Kicked by mule. Outside.
	17	Peter M. Novak,	Slavonian,	Headman,	23	S.	Olyphant,			Explosion of blasting cap in pocket. Outside.
	27	William Sheren,	American,	Motorman,	28	S.	Olyphant,			Caught between car and motor.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Scranton, May 4 and 5. The Board of Examiners was composed of D. T. Williams, Mine Inspector, Scranton; John Rees James, Superintendent, Scranton; James W. Reese, Miner, Scranton; Stephen Beddoe, Miner, Dickson City.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

William E. Graham, Cyrus Marion Roberts, Herbert Jones, Evan Phillips, Nathaniel Jones, Ivor H. Williams, Andrew H. Smith, James B. Smith, Karl S. Hughes, Joseph Connochan, Robert S. Williams, William X. Smith, John H. Harvey, Morgan Joseph Williams, James William White, William Richards, Cyrus M. Prosser, Thomas J. Price, Frederic William Warman, Daniel M. James, Oliver P. Clark, John F. Masterson, William Williams, Herman J. Miller, David E. Jones, Frank Regan, Michael J. Clunan, William Perry, William Arthur Wilson, Thomas A. Evans, Michael J. Walsh, William Griffiths, Scranton; Robert J. Parsons, Emery Rolls, James Gibson, John D. Jones, Edward G. Phillips, Charles H. Rolls, John Drouzek, Stanley Shander, Anthony J. Sweeney, Peckville; Thomas C. Williams, Arthur Tinsley, James Myrick, Darby A. Walsh, Frank Comerota, John J. Loftus, Frank P. Loftus, William J. Knighton, Anthony J. Comerota, Andrew Hare, Harold E. Dietrick Olyphant; Albert Browning, Richard Magor, George Humphry Parry, Thomas King, Ernest B. Browning, Joseph Henry Williams, John W. Hoyes, Blakely; Harry F. Ellis, Vaughan H. Wilson, Arthur Matthews, James J. Fox, Dunmore; John Hennemuth, Thomas T. Lewis, Archbald; Ralph Atkinson, Silas Powell, Frank McDonald, Joseph Henry Burns, George Robert Balderson, John James Harris, William J. Naugin, James E. Fitzgerald, Henry Coates, John F. Fitzgerald, Andrew Schultz, Throop; Frederick Harris, Thomas Hamilton, John F. Morris, Dickson City; George Bell, Winton; James J. Dermody, John J. Quinn, Jessup; Harold Arthur Dolson, Clark Summit; George F. Kieb, Wyoming; Robert Burt, Pittston.

ASSISTANT MINE FOREMEN

John Smith, John M. McHugh, Thomas Pugh, Frank Sheridan, Henry G. Daniels, Michael J. Cafferty, Scranton; Lawrence Emmet Hastings, John Conmy, Olyphant; Thomas Leo Fitzsimmons, Peckville; John Francis Coyne, Minooka; Alexander Frazier, Montdale.

1920

SEVENTH DISTRICT

LACKAWANNA AND LUZERNE COUNTIES

Augustus McDade, Inspector, Taylor

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	2
Mines in district,	23
Gaseous mines in operation,	11
Non-gaseous mines in operation,	12
Tons of coal shipped to market,	2,307,633
Tons used at mines for steam and heat,	208,629
Tons sold to local trade and used by employes,	54,337
Tons produced (gross),	2,570,599
Tons produced by electrical machines,	100,000
Persons employed inside,	4,328
Persons employed outside,	1,229
Persons employed inside between 16 and 21 years,	276
Persons employed outside between 14 and 21 years,	333
Fatal accidents inside,	10
Fatal accidents outside,	3
Serious non-fatal accidents inside,	33
Serious non-fatal accidents outside,	6
Tons produced per fatal accident inside,	257,060
Tons produced per fatal accident inside and outside,	197,738
Persons employed per fatal accident inside,	433
Persons employed per fatal accident outside,	410
Persons employed per fatal accident inside and outside,	427
Persons employed per non-fatal accident inside,	131
Persons employed per non-fatal accident outside,	205
Persons employed per non-fatal accident inside and outside,	142
Wives made widows,	9
Children made orphans,	17
Steam locomotives outside,	9
Electric motors inside,	105
Electric motors outside,	3
Cylindrical boilers,	3
Tubular boilers,	76
Steam engines of all classes,	107
Electric dynamos,	6
Pumps of all classes,	119
Pumps delivering water to surface,	29
Air compressors,	4
Fans in use,	16
New mines opened,	2

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Delaware, Lackawanna and Western Railroad Company,	1,150,257
Pennsylvania Coal Company,	655,919
Jermyn and Company,	344,246
Suffolk Coal Company,	227,321
Hillside Coal and Iron Company,	111,367
Scranton-Taylor Coal Company,	43,942
Dennington Coal Company,	37,547
Total,	2,570,599

Production by Counties

Lackawanna,	1,858,376
Luzerne,	712,223
Total,	2,570,599

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Delaware, Lackawanna and Western Railroad Co.,	1	------	1	16	------	16	1,150,257	71,891	1,649	344	1,993	1,649	----------	103	----------
Pennsylvania Coal Co.,	4	------	4	10	2	12	163,980	65,592	1,416	462	1,878	354	----------	142	231
Jermyn and Co.,	2	1	3	3	3	6	172,123	114,749	710	173	883	355	173	237	58
Suffolk Coal Co.,	1	------	1	3	------	3	227,321	75,774	389	101	490	389	----------	130	----------
Hillside Coal and Iron Co.,	2	2	4	1	1	2	55,683	111,367	164	102	266	82	51	164	102
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	----------	47	47	----------	----------	----------	----------
Totals and averages,	10	3	13	33	6	39	257,060	77,897	4,328	1,229	5,557	433	410	131	205

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Delaware, Lackawanna and Western Railroad Co.									
Taylor,	Lackawanna,	C or Clark,	78	Shaft,	Gaseous,	10		100,000	

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post Office	Superintendent	Post Office	Railroad to mine
Delaware, Lackawanna and Western Railroad Co.						
Taylor,	Lackawanna,	S. D. Dimmick,	Scranton,	F. A. Gleason,	Scranton,	D., L. & W.
Pyne,	Lackawanna,			H. E. Harris,	Scranton,	
Hallstead,	Luzerne,					
Pennsylvania Coal Co.						
Old Forge,	Lackawanna,	W. P. Jennings,	Scranton,	John N. Cooke,	Old Forge,	Erie.
Central,	Luzerne,			P. H. O'Brien,	Avoca,	
Jermyn and Co.						
Jermyn,	Lackawanna,	J. J. Jermyn,	Scranton,	John P. Corcoran,	Old Forge,	Erie.
Suffolk Coal Co.						
Avoca,*	Luzerne,	W. S. Jermyn,	Scranton,			D. & H.
Hillside Coal and Iron Co.						
Consolidated,	Luzerne,	W. P. Jennings,	Scranton,	John B. Jones,	Moosic,	Erie.
Scranton—Taylor Coal Co.						
Washery,	Lackawanna,	S. J. McDonald,	Taylor,			D., L. & W.
Dennington Coal Co.						
Washery,	Lackawanna,	J. J. Jermyn,	Scranton,	John P. Corcoran,	Old Forge,	D., L. & W.

*Formerly Langcliffe Colliery, Hudson Coal Co.

TABLE 2.--PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Delaware, Lackawanna and Western Railroad Co.												
Taylor,	Lackawanna,	507,579	36,134	12,439	556,152	279	960	1	8	364,950	36,078	23,300
Pyne,	Lackawanna,	384,622	29,448	2,224	416,294	278	706	--------	7	376,750	13,863	925
Hallstead,	Luzerne,	153,973	20,187	3,651	177,811	279	327	--------	1	4,675	4,075	150,250
Totals,		1,046,174	85,769	18,314	1,150,257	--------	1,993	1	16	746,375	54,016	174,475
Pennsylvania Coal Co.												
Old Forge,	Lackawanna,	404,573	55,552	70	460,195	236	1,300	2	7	197,975	7,500	123,475
Central,	Luzerne,	167,907	21,058	6,759	195,724	231	578	2	5	175,875	----------	12,803
Totals,		572,480	76,610	6,829	655,919	--------	1,878	4	12	373,850	7,500	136,278
Jermyn and Co.												
Jermyn,	Lackawanna,	298,490	31,941	13,815	344,246	258	883	3	6	196,875	19,700	----------
Suffolk Coal Co.												
Avoca,	Luzerne,	216,057	7,771	3,493	227,321	289	490	1	3	13,925	4,929	62,371
Hillside Coal and Iron Co.												
Consolidated,	Luzerne,	92,943	6,538	11,886	111,367	255	266	4	2	112,875	----------	10,948
Scranton-Taylor Coal Co.												
Washery,	Lackawanna,	43,942	----------	----------	43,942	300	20	--------	--------	----------	----------	----------
Dennington Coal Co.												
Washery,	Lackawanna,	37,547	----------	----------	37,547	137	27	--------	--------	----------	----------	----------
Grand Totals,		2,307,633	208,629	54,537	2,570,599	--------	5,557	13	39	1,443,900	86,145	384,072

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna, Luzerne,	----	--------	20	3,890	25	4,227	----	--------	----	--------	33	39,350	8	16,400	87	----	1	----	49	1	120
Pennsylvania Coal Co.,	Lackawanna, Luzerne,	----	--------	42	4,800	33	5,120	----	--------	5	1,750	51	27,500	14	18,000	50	----	5	----	44	1	1,500
Jermyn and Co.,	Lackawanna,	----	--------	4	2,000	20	2,267	----	--------	1	50	18	11,400	4	7,000	54	----	----	----	10	1	1,500
Suffolk Coal Co.,	Luzerne,	3	375	2	230	13	610	----	--------	----	--------	8	3,700	3	2,510	41	----	----	----	5	----	--------
Hillside Coal and Iron Co.,	Luzerne,	----	--------	8	600	13	1,000	----	--------	----	--------	6	2,400	----	--------	34	----	3	----	----	1	1,100
Scranton-Taylor Coal Co.,	Lackawanna,*	----	--------	----	--------	----	--------	----	--------	----	--------	3	500	----	--------	----	----	----	----	----	----	--------
Dennington Coal Co.,	Lackawanna,**	----	--------	----	--------	3	410	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Totals,		3	375	76	11,520	107	13,634	----	--------	6	1,800	119	84,850	29	43,910	266	----	9	----	108	4	4,220

*Power furnished by Scranton Electric Co.
**Power furnished by Jermyn and Co.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna, Luzerne,	4	19	7	571	493	1	1	49	48	46	42	12	16	19	13	20	288	1,649
Pennsylvania Coal Co.,	Lackawanna, Luzerne,	8	20	------	611	412	------	------	45	45	24	38	3	16	17	15	9	153	1,416
Jermyn and Co.,	Lackawanna,	3	5	10	259	240	------	------	------	------	96	10	------	6	12	------	3	66	710
Suffolk Coal Co.,	Luzerne,	3	7	------	118	125	------	------	3	3	35	13	1	39	2	5	------	35	389
Hillside Coal and Iron Co.,	Luzerne,	------	2	------	124	5	------	------	------	------	21	4	------	------	------	------	------	8	164
Scranton-Taylor Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Dennington Coal Co.,	Lackawanna,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals,		18	53	17	1,683	1,275	1	1	97	96	222	107	16	77	50	33	32	550	4,328

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna, Luzerne,	1	3	7	34	35	4		68	3	9	180	344	1,993
Pennsylvania Coal Co.,	Lackawanna, Luzerne,	2	2	5	45	38	15	15	69		7	264	462	1,878
Jermyn and Co.,	Lackawanna,	2	1	4	12	17	3	2	20	14	8	90	173	883
Suffolk Coal Co.,	Luzerne,	1	2	2	7	8	1	1	12		4	63	101	490
Hillside Coal and Iron Co.,	Luzerne,	1	1	1	8	13	3	2	17	4	2	50	102	266
Scranton-Taylor Coal Co.,	Lackawanna,	1			2	1			1		1	14	20	20
Dennington Coal Co.,	Lackawanna,	2	1		1		1				2	20	27	27
Totals,		10	10	19	109	112	27	20	187	21	33	681	1,229	5,557

TABLE 3.—PART 2.

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Delaware, Lackawanna and Western Railroad Co.,	Lackawanna, Luzerne,	26	24	26	16	24	26	26	26	11	25	23	26	279
Pennsylvania Coal Co.,	Lackawanna, Luzerne,	26	19	24	15	25	26	22	4	4	20	23	25	233
Jermyn and Co.,	Lackawanna,	25	22	24	15	22	25	23	23	7	25	23	24	258
Suffolk Coal Co.,	Luzerne,	25	23	26	24	24	26	26	26	17	25	22	25	289
Hillside Coal and Iron Co.,	Luzerne,	26	23	27	14	25	26	26	10	6	22	24	26	255

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 8	Frank Mullrooney,	American,	Miner,	42	M	1	------	Consolidated,	Luzerne,	Fall of roof at face of chamber.
19	Robert McDonald,	American,	Asst. mine foreman,	37	M	1	2	Central,	Luzerne,	Fall of roof at end of pillar.
March 29	Frank Vitock,	Russian,	Miner,	30	M	1	------	Jermyn,	Lackawanna,	Fall of roof near end of pillar.
April 10	Harvey Decker,	American,	Miner,	49	M	1	2	Consolidated,	Luzerne,	Fall of roof near end of pillar.
26	James Madella,	Italian,	Miner,	35	M	1	3	Old Forge,	Lackawanna,	Delayed blast at face of chamber.
May 10	Robert Evans,	American,	Rope rider,	17	S	------	------	Consolidated,	Luzerne,	Thrown from car near foot of plane. Outside.
28	John Krevlin,	Russian,	Laborer,	42	M	1	5	Taylor,	Lackawanna,	Fall of roof near end of pillar.
June 2	William Malone,	American,	Carpenter,	67	M	1	------	Consolidated,	Luzerne,	Finger cut in carpenter shop. Died from blood poison. Outside.
17	Settino Baladini,	Italian,	Miner,	38	S	------	------	Central,	Luzerne,	Fall of roof near end of pillar.
July 2	Raffel Cretelli,	Italian,	Miner's laborer,	39	S	------	------	Jermyn,	Lackawanna,	Fall of roof at face of chamber.
21	Samuel Terotti,	Italian,	Car loader,	22	S	------	------	Jermyn,	Lackawanna,	Railroad car near washery. Outside.
Dec. 4	Thomas Daley,	American,	Laborer,	56	M	1	------	Avoca,	Luzerne,	Blast on gangway.
8	Genaro Cerendel,	Italian,	Miner,	38	M	1	5	Old Forge,	Lackawanna,	Fall of roof at end of pillar.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date		Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan.	6	Dennis Morrisey,	American,	Miner,	35	M.	Old Forge,	Lackawanna,	Fall of roof at face.
	8	John Howell,	English,	Miner,	57	M.	Old Forge,	Lackawanna,	Explosion of dynamite cap at face.
	14	James Pasquitini,	Italian,	Miner,	39	M.	Old Forge,	Lackawanna,	Fall of roof at face.
	31	Alex Dobrinski,	Polish,	Laborer,	38	M	Central,	Luzerne,	Fall of roof at face.
March	2	Anthony Gallio,	Italian,	Miner,	54	M.	Jermyn,	Lackawanna,	Drill falling at face.
	5	Michael Francis,	Slavonian,	Miner,	39	M.	Taylor,	Lackawanna,	Fall of roof at face.
May	10	George Richardson,	American,	Miner,	47	M	Pyne,	Lackawanna,	Fall of roof at face.
	11	John Burshock,	Russian,	Laborer,	54	M.	Taylor,	Lackawanna,	Fall of roof at pillar end.
	13	Anthony Kosloskie,	Polish,	Miner,	35	S.	Old Forge,	Lackawanna,	Fall of roof at face.
	14	Frank Shuta,	Polish,	Laborer,	44	S.	Pyne,	Lackawanna,	Fall of roof at face.
	19	Charles Nemora,	Polish,	Miner,	26	M.	Avoca,	Luzerne,	Fall of roof at face.
	20	Thomas Kearney,	Irish,	Miner,	45	M.	Taylor,	Lackawanna,	Fall of roof at face.
	24	John Schield,	American,	Brakeman,	20	S.	Pyne,	Lackawanna,	Cars on gangway road.
June	11	Andrew Rutka,	Polish,	Miner,	36	M.	Consolidated,	Luzerne,	Fall of roof at face.
	16	Andrew Shimley,	American,	Footman,	16	S.	Central,	Luzerne,	Cars at foot of shaft.
July	2	Andrew Mondoski,	Polish,	Miner,	36	M.	Old Forge,	Lackawanna,	Car at face.
		William Shelish,	Polish,	Miner,	45	M.	Avoca,	Luzerne,	Car on gangway road.
	10	John Blackwell,	American,	Teamster,	28	M.	Central,	Luzerne,	Falling near breaker. Outside.
Aug.	3	Andrew Watchefski,	Russian,	Laborer,	42	M.	Taylor,	Lackawanna,	Rock slipping from cave at pillar end.
	30	Michael Corcoran,	American,	Laborer,	27	S.	Taylor,	Lackawanna,	Car at foot of slope.
Sept.	28	John Bold,	American,	Miner,	42	M.	Pyne,	Lackawanna,	Fall of top coal at face.
Oct.	9	Frank Zimitroveiz,	Polish,	Miner,	37	S.	Hallstead,	Luzerne,	Rock slipping from gob at face.
	12	Edward Byerly,	American,	Rope rider,	20	S.	Jermyn,	Lackawanna,	Cars. Outside.
		Oscar Johnson,	American,	Machinist,	58	M.	Central,	Luzerne,	Iron pipe falling near breaker. Outside.
	16	Augustus Hook,	American,	Loco. engineer,	62	M.	Consolidated,	Luzerne,	Caught between car and locomotive on light car branch. Outside.
	25	Joseph Hunchara,	Russian,	Car loader,	49	M.	Jermyn,	Lackawanna,	Plank falling under breaker. Outside.
Nov.	1	Andrew Broden,	Polish,	Miner,	39	M.	Taylor,	Lackawanna,	Struck by drill at face.
	4	Edward Shemagalski,	Polish,	Laborer,	50	M.	Pyne,	Lackawanna,	Sliding rock at face.
		George Olchefsky,	Polish,	Laborer,	39	M.	Pyne,	Lackawanna,	Lifting rock at face.
	10	Luigi Gereti,	Italian,	Laborer,	24	S.	Central,	Luzerne,	Flying coal from blast 50 feet from face.
	20	Felix Visnefski,	Polish,	Miner,	26	M.	Jermyn,	Lackawanna,	Fall of roof at face.
Dec.	6	Joseph Sincavage,	Polish,	Laborer,	38	M.	Taylor,	Lackawanna,	Piece of rolling coal at face.
	9	Edward Keiser,	American,	Motorman,	26	M.	Old Forge,	Lackawanna,	Motor on gangway road.
	11	Albert Riddle,	American,	Brakeman,	26	S.	Pyne,	Lackawanna,	Cars in chamber.
		Michael Preshock,	Austrian,	Brakeman,	19	S.	Taylor,	Lackawanna,	Cars on gangway.
	17	Michael Makala,	Polish,	Miner,	46	M.	Old Forge,	Lackawanna,	Sliding rock from rib.
	23	Charles Adamovich,	Polish,	Laborer,	24	S.	Avoca,	Luzerne,	Fall of roof at face.
		Joseph Andrello,	Italian,	Jig runner,	18	S.	Jermyn,	Lackawanna,	Falling down breaker steps. Outside.
	26	Joseph Gollott,	Italian,	Laborer,	57	M.	Jermyn,	Lackawanna,	Burned by gas in chamber.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held May 4 and 5, in Old Forge. The Board of Examiners was composed of the following persons: Augustus McDade, Inspector, Taylor; Joseph P. Jennings, Superintendent, Moosic; Morgan E. Griffiths, Miner, Taylor; Obadiah Day, Miner, Taylor; David E. Jones, Clerk, Taylor.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Charles Bradbury, Avoca; Joseph T. Dixon, Carbondale; Rudolph Bosker, Jabez E. Dainty, Charles Dawson, Edward Joseph Delaney, James Gray, Robert Herron, George Henry Kolmansberger, William Moran, Duryea; Howard M. Davies, Leslie Davies, Edwardsville; John J. Munley, Jessup; Martin Clifford, Walter S. Lovering, Moosic; Albert C. Croom, Thomas William Davies, Hugh Dove, George W. Finkley, Walter Laggan, William J. John, Peter Neishell, William B. Williams, Old Forge; Michael E. Doherty, William Morgan, Olyphant; John Campbell, John Langley, Pittston; Gomer Jones, West Pittston; Phillip Bohn, William J. Davies, Martin Duffy, Engene McTiernan, Scranton; John B. Rees, Richard E. Watkins, Taylor; Patrick F. Langan, Rendham.

ASSISTANT MINE FOREMEN

Ananias Phillips, Old Forge; Stanley Tetlock, Taylor.

1920

EIGHTH DISTRICT

LUZERNE COUNTY

Robert Johnson, Inspector, Pittston

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	1
Mines in district,	23
Gaseous mines in operation,	18
Non-gaseous mines in operation,	5
Tons of coal shipped to market,	2,902,763
Tons used at mines for steam and heat,	281,021
Tons sold to local trade and used by employes,	46,579
Tons produced (gross),	3,230,363
Tons produced by electrical machines,	26,977
Persons employed inside,	6,720
Persons employed outside,	2,023
Persons employed inside between 16 and 21 years,	421
Persons employed outside between 14 and 21 years,	352
Fatal accidents inside,	29
Fatal accidents outside,	2
Serious non-fatal accidents inside,	28
Serious non-fatal accidents outside,	8
Tons produced per fatal accident inside,	111,392
Tons produced per fatal accident inside and outside,	104,205
Persons employed per fatal accident inside,	232
Persons employed per fatal accident outside,	1,012
Persons employed per fatal accident inside and outside,	282
Persons employed per non-fatal accident inside,	240
Persons employed per non-fatal accident outside,	253
Persons employed per non-fatal accident inside and outside,	243
Wives made widows,	19
Children made orphans,	46
Steam locomotives outside,	29
Compressed air locomotives inside,	2
Electric motors inside,	187
Electric motors outside,	3
Tubular boilers,	137
Steam engines of all classes,	254
Electric dynamos,	24
Pumps of all classes,	191
Pumps delivering water to surface,	29
Air compressors,	17
Fans in use,	31

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Pennsylvania Coal Company,	2,313,458
Hillside Coal and Iron Company,	648,449
Hudson Coal Company,	242,143
Quinn Coal Company,	26,313
Total,	3,230,363

Production by Counties

Luzerne,	3,230,363

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Pennsylvania Coal Co.,	25	2	27	19	5	24	92,538	121,761	5,078	1,512	6,590	203	756	267	302
Hillside Coal and Iron Co.,	1	------	1	4	2	6	648,449	162,112	1,160	418	1,578	1,160	----------	290	209
Hudson Coal Co.,	2	------	2	5	1	6	121,071	48,429	425	77	502	212	----------	85	77
Quinn Coal Co.,	1	------	1	------	------	------	26,313	----------	57	16	73	57	----------	----------	----------
Totals and averages,	29	2	31	28	8	36	111,392	115,370	6,720	2,023	8,743	232	1,012	240	253

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Pennsylvania Coal Co.									
Number 9,	Luzerne,	F or Clark,	48	Shaft,	Gaseous,	3			
		F or Clark,	42	Shaft,	Gaseous,	1		15,922	
Number 14,	Luzerne,	D or Marcy,	60	Drift,	Gaseous,	2		1,085	
Barnum,	Luzerne,	F or Clark,	48	Shaft,	Gaseous,	2		9,970	
Totals,						8		26,977	
Hillside Coal and Iron Co.									
Butler,	Luzerne,	F or Stark,	37	Shaft,	Gaseous,	1		*	
		B or Red Ash,	60	Slope,	Non-gas.,	6		*	
Totals,						7			
Grand totals,						15		26,977	

*No record kept.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Pennsylvania Coal Co.						
Ewen,	Luzerne,	J. P. Jennings,	Scranton,	Benjamin Milton, Thomas Huntley, John Dobbie, John Brown, Thomas Huntley,	Pittston,	Erie.
Number 9,						
Number 14,						
Number 6,						
Barnum,						
Hillside Coal and Iron Co.						
Butler,	Luzerne,	J. P. Jennings,	Scranton,	J. C. Johnson,	Avoca,	Erie.
Hudson Coal Co.						
Laflin,	Luzerne,	R, H. Buchanan,	Scranton,	Edward Manning,	Laflin,	Delaware & Hudson.
Laflin Washery,						
Quinn Coal Co.						
Pickaway,	Luzerne,	James J. Moore,	Dunmore,	J. J. Carden,	Pittston,	Lehigh Valley.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Pennsylvania Coal Co.												
Ewen,	Luzerne,	462,302	58,433	1,826	522,561	218	1,518	7	4	461,050	1,000	45,664
Number 9,	Luzerne,	527,278	50,795	10,755	588,828	234	1,488	4	8	471,450	34,975	34,975
Number 14,	Luzerne,	544,340	56,133	8,828	609,301	228	1,669	6	5	423,750	----------	103,354
Number 6,	Luzerne,	409,449	39,583	13,309	462,311	216	1,594	9	6	498,000	----------	83,040
Barnum,	Luzerne,	113,809	13,846	2,772	130,437	201	321	1	1	52,900	2,750	2,231
Totals,		2,057,178	218,790	37,490	2,313,458	--------	6,590	27	24	2,007,150	38,725	269,264
Hillside Coal and Iron Co.												
Butler,	Luzerne,	590,371	49,756	8,322	648,449	259	1,578	1	6	424,875	----------	131,172
Hudson Coal Co.												
Laflin,*	Luzerne,	228,209	6,569	767	235,545	243	502	2	6	161,825	38,136	31,470
Laflin Washery,		2,372	4,226	----------	6,598			--------	--------	--------	--------	--------
Totals,		230,581	10,795	767	242,143	--------	502	2	6	161,825	38,136	31,470
Quinn Coal Co.												
Pickaway,	Luzerne,	24,633	1,680	----------	26,313	266	73	1	--------	18,500	1,500	5,000
Grand totals,		2,902,763	281,021	46,579	3,230,363	--------	8,743	31	36	2,612,350	78,361	436,906

*Breaker destroyed by fire. Coal prepared at Laurel Run, 10th District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Pennsylvania Coal Co.,	Luzerne,	----	--------	106	18,485	197	18,580	----	--------	17	4,580	132	61,253	21	24,950	401	----	19	----	144	12	10,340
Hillside Coal and Iron Co.		----	--------	19	4,200	41	4,200	----	--------	6	1,215	36	9,000	2	600	----	----	8	----	39	2	250
Hudson Coal Co.,		----	--------	11	1,540	16	1,618	----	--------	1	300	23	8,615	6	1,500	67	----	1	----	5	2	2,500
Quinn Coal Co.,		----	--------	1	125	----	--------	----	--------	----	--------	----	--------	----	--------	9	----	1	2	2	1	42
Totals,		----	--------	137	24,350	254	24,398	----	--------	24	6,095	191	78,868	29	27,050	477	----	29	2	190	17	13,132

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																		Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Pennsylvania Coal Co.,	Luzerne.	18	39	47	1,888	1,147	7	2	143	142	406	150	82	148	45	30	66	782	5,078
Hillside Coal and Iron Co.,	Luzerne.	3	11	1	448	387	2	10	39	42	32	30	------	------	9	11	23	112	1,160
Hudson Coal Co.,	Luzerne.	1	8	------	305	27	------	------	5	3	41	13	------	------	2	1	1	18	425
Quinn Coal Co.,	Luzerne.	1	1	------	26	23	------	------	------	------	4	2	------	------	------	------	------	------	57
Totals,		23	59	48	2,667	1,584	9	12	187	187	483	195	82	148	56	42	90	892	6,720

TABLE 3.—PART 1.—Continued.

Operators	County	Outside												
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Grand total inside and outside
Pennsylvania Coal Co.,	Luzerne,	4	8	22	137	159	70	5	139	41	26	901	1,512	6,590
Hillside Coal and Iron Co.,	Luzerne,	1	1	6	41	39	18	19	40	5	3	250	418	1,578
Hudson Coal Co.,	Luzerne,	1	1	4	5	20	2	1	-------	8	3	32	77	502
Quinn Coal Co.,	Luzerne,	1	-------	1	2	2	-------	-------	3	-------	-------	7	16	73
Totals,		7	10	33	185	220	85	25	182	54	32	1,190	2,023	8,743

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Pennsylvania Coal Co.,	Luzerne,	27	20	26	13	25	25	14	2	3	18	22	24	219
Hillside Coal and Iron Co.,	Luzerne,	29	21	29	14	28	29	17	2	2	19	22	27	239
Hudson Coal Co.,	Luzerne,	24	19	11	24	22	25	26	11	9	25	22	25	243
Quinn Coal Co.,	Luzerne,	23	23	25	23	24	23	21	24	8	26	21	25	206

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Feb. 3	Jacob Fisher,	American,	Driver,	20	S.			Number 14,		Fall of coal on gangway.
13	Anthony Krevanis,	Lithuanian,	Miner's laborer,	23	S.			Ewen,		Fall of top rock at face of chamber.
Mar. 6	William Slavinsky,	Lithuanian,	Miner's laborer,	26	S.			Laflin,		Fall of top rock at face of chamber.
	John Ranoskey,	Polish,	Miner,	42	M.	1	2	Butler,		Fall of coal at face of chamber.
17	Mike Semansky,	Polish,	Miner's laborer,	46	M.	1	4	Number 9,		Squeezed between car and rib in chamber.
	Sam Petix,	Italian,	Driver,	18	S.			Number 6,		Cars on gangway.
April 8	Andrew Simlock,	Lithuanian,	Miner's laborer,	33	M.	1	3	Barnum,		Fall of rock in chamber,
	Joseph Butta,	Italian,	Miner's laborer,	47	M.	1	6	Ewen,		Fall of rock in old heading.
	Robert Todd,	Scotch,	Miner's laborer,	59	S.					
24	Martin Roche,	Irish,	Miner,	50	M.	1	3	Number 9,		Explosion of gas in chamber.
May 3	Joe Castellina,	Italian,	Miner,	48	M.	1	4	Number 14,		Fall of rock at face of chamber.
	John Grahola,	Polish,	Miner's laborer,	50	M.	1	2			
	George Kerr,	Lithuanian,	Miner,	35	S.			Ewen,		Falling down shaft.
11	Joseph Cebula,	American,	Machinist,	19	S.			Number 9,		Caught in conveyor line. Outside.
20	Joe Schifno,	Italian,	Driver,	17	S.			Ewen,		Fall of top rock in airway.
	Anthony Greechin,	Lithuanian,	Miner,	29	M.	1	2	Ewen,		Explosion of blast in chamber.
25	Joseph Courtright,	American,	Laborer,	18	S.			Ewen,	Luzerne,	Mine cars. Outside.
29	Joseph Kussness,	Polish	Miner's laborer,	35	S.			Number 9,		Fall of top rock at face of chamber.
June 18	Mike Sefaro,	Russian,	Miner's laborer,	30	M.	1	2	Pickaway,		Fall of rock at face of chamber.
19	Salvatore Rossi,	Italian,	Miner,	39	S.			Number 14,		Fall of top rock at face of chamber.
	David E. Evans,	American,	Assistant mine foreman,	32	M.	1	1			
	Charles Aitken,	American,	Machinist,	38	M.	1	2	Number 6,		Explosion of gas in old workings.
	Richard Burke,	American,	Machinist,	29	M.	1				
28	Andrew Dominick,	Russian,	Miner,	32	M.	1	4	Laflin,		Fall of top rock in gangway.
29	Joseph Sheperis,	American,	Doorboy,	17	S.			Number 6,		Run over by motor on gangway.
	Angelo Lodicolo,	Italian,	Miner's laborer,	32	M.	1		Number 6,		Fall of rock at face of chamber.
July 7	James Samphilippo,	Italian,	Miner's laborer,	30	M.	1	1	Number 6,		Blast in heading.
Nov. 10	John Adavage,	Polish,	Miner,	40	M.	1	5	Number 14,		Fall of top rock at face of chamber.
13	Steve Pelatz,	Polish,	Miner's laborer,	45	M.	1	1	Number 6,		Fall of rock at face of chamber.
23	Frank Pukilis,	Lithuanian,	Miner,	48	M.	1	3	Number 6,		Falling prop at face of chamber.
Dec. 22	Sam Demore,	Italian,	Miner,	23	M.	1	1	Number 14,		Fall of top rock at face of chamber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Feb. 10	John Kotaras,	Polish,	Laborer,	55	M	Laflin,		Flying coal from runaway car on breaker plane. Outside.
14	George Varonick,	Polish,	Miner,	37	M	Butler,		Cars.
27	Anthony Botenza,	Italian,	Driver,	17	S	Number 9,		Cars.
Mar. 10	Anthony Arfo,	Italian,	Miner,	46	M	Barnum,		Fall of coal from rib.
	Mike Lyack,	Lithuanian	Miner's laborer,	33	M	Ewen,		Fall of coal from pillar.
11	Frank Rosenor,	American,	Trackman,	69	M	Butler,		Cars. Outside.
17	Timothy Clifford,	American,	Miner's laborer,	37	S	Ewen,		Fall of coal from rib.
23	Martin Yealasky,	Polish,	Miner,	46	M	Number 14,		Fall of coal in chamber.
April 7	Sam Bertilla,	Italian,	Miner's laborer,	40	M	Number 14,		Fall of top rock.
May 4	Cosmer Condan,	Italian,	Miner's laborer,	48	M	Number 9,		Fall of rock.
29	Peter Brozowski,	Polish,	Miner,	38	M	Number 14,		Fall of coal at face of chamber.
June 1	Alex Chitock,	Polish,	Miner,	27	M	Ewen,		Fall of rock.
	Edward Tully,	American,	Plateman,	17	S	Number 6,		Caught by bit. Outside.
7	Willard Clark,	American,	Motorman,	22	S	Number 6,		Thrown from motor.
18	Peter Rohland,	German,	Miner,	48	M	Number 9,		Lifting piece of timber.
21	George Davescavitch,	Lithuanian,	Miner's laborer,	20	S	Number 9,		Cars.
25	Carmel D. Angelo,	Italian,	Miner's laborer,	55	M	Number 9,		Runaway cars.
	William Androwskis,	Russian,	Loader,	50	M	Number 6,	Luzerne,	Falling from car. Outside.
26	Meni Pamarusko,	Russian,	Miner's laborer,	38	M	Laflin,		Fall of rock.
	John Korea,	Slavonian,	Miner's laborer,	54	M	Number 9,		Fall of rock.
July 14	William Krakenberg,	German,	Miner,	47	M	Butler,		Cars.
Aug. 11	Martin Judge,	American,	Machinist,	39	M	Butler,		Burned by steam. Outside.
30	Joe Yonkie,	Hungarian,	Loader,	45	M	Number 14,		Squeezed between railroad cars. Outside.
Oct. 7	Howard Booth,	American,	Teamster,	28	M	Number 9,		Thrown from wagon. Outside.
18	Walter Skiginskis,	Polish,	Miner's laborer,	48	M	Number 14,		Fall of rock.
Nov. 5	Angelo Retantaro,	Italian,	Slatepicker,	16	S	Number 6,		Falling down steps in breaker. Outside.
6	Fred Perri,	Italian,	Miner,	28	M	Butler,		Explosion of blast.
8	Raymond McDonald,	American,	Trackman,	19	S	Ewen,		Struck by rope.
20	John Strata,	Lithuanian,	Trackman,	55	S	Laflin,		Cars.
23	Joseph Peostick,	Polish,	Miner,	50	M	Number 9,		Fall of rock.
	William D. Hale,	American,	Miner,	31	M	Laflin,		Fall of rock.
Dec. 8	James D. Eliseo,	Italian,	Driver,	24	S	Laflin,		Derailed cars.
9	Joe Stanish,	Polish,	Miner,	42	M	Butler,		Cars.
11	Joseph Javage,	Lithuanian,	Driver,	18	S	Laflin,		Cars.
16	Louis Puma,	Italian,	Miner's laborer,	39	M	Number 6,		Fall of roof.
24	William Bielowsky,	Lithuanian,	Miner's laborer,	46	M	Number 6,		Explosion of blast.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Pittston, May 4 and 5. The Board of Examiners was composed of Robert Johnson, Mine Inspector; H. T. McMillan, Superintendent; M. J. Ford, Miner; Frank Parks, Miner.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

William Roberts, James H. Pollard, Avoca; William A. Monahan, John Cooper, Laflin; William Haines, Thomas Dobbie, Robert Pritchard, William Harper, Jesse Alexander Wilson, Thomas Huntley, Thomas L. Watson, James Williams, George Deeble, Alfred S. Ralston, Pittston; Alexander Cooke, Plains; Fredrick J. Jones, West Pittston; William G. Bradley, Wyoming.

ASSISTANT MINE FOREMEN

John Hinchliff, William M. Bennett, James Corcoran, James Bofstock, William J. Hutchins, Reuben Searfoss, Avoca; Robert G. Studley, Inkerman; Arthur Hicks, Peter Orr, Laflin; John E. Durdo, Luzerne; Clarence Robertson, George Hunter, Thomas Hindmarsh, Gordon Frantz, Arthur Havard, Harold E. Williams, Roy J. Hilbert, Peter Minichello, Thomas Bartlett, James B. Robertson, William Wilson, Isaac M. Thomas, William P. Loughney, Alexander Craig, James E. Moore, John J. Burns, Joseph A. Mullery, Pittston; Samuel N. Kinney, Emrys T. Rowlands, Plains; Robert Calder, Duncan McNee, Frank James, Fred Ciampi, William Hale, West Pittston; George H. Eckhart, Wyoming.

1920

NINTH DISTRICT

LUZERNE AND LACKAWANNA COUNTIES

Edwin C. Curtis, Inspector, West Pittston

SUMMARY OF STATISTICS

Collieries in operation (breakers),	11
Washeries in operation,	2
Mines in district,	31
Gaseous mines in operation,	17
Non-gaseous mines in operation,	14
Tons of coal shipped to market,	2,196,652
Tons used at mines for steam and heat,	396,890
Tons sold to local trade and used by employes,	93,624
Tons produced (gross),	2,687,166
Tons produced by electrical machines,	49,370
Persons employed inside,	3,586
Persons employed outside,	1,535
Persons employed inside between 16 and 21 years,	320
Persons employed outside between 14 and 21 years,	336
Fatal accidents inside,	12
Fatal accidents outside,	4
Serious non-fatal accidents inside,	49
Serious non-fatal accidents outside,	8
Tons produced per fatal accident inside,	223,931
Tons produced per fatal accident inside and outside,	167,948
Persons employed per fatal accident inside,	299
Persons employed per fatal accident outside,	384
Persons employed per fatal accident inside and outside,	320
Persons employed per non-fatal accident inside,	73
Persons employed per non-fatal accident outside,	192
Persons employed per non-fatal accident inside and outside,	90
Wives made widows,	13
Children made orphans,	17
Steam locomotives outside,	11
Compressed air locomotives inside,	6
Electric motors inside,	52
Electric motors outside,	1
Tubular boilers,	84
Steam engines of all classes,	241
Electric dynamos,	24
Pumps of all classes,	180
Pumps delivering water to surface,	48
Air compressors,	8
Fans in use,	28
New mines opened,	1

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Lehigh Valley Coal Company,	1,562,823
Temple Coal Company,	471,805
Kingston Coal Company,	352,552
Mount Lookout Coal Company,	211,535
John Ames Coal Company,	53,232
Exeter Coal Company,	18,023
Healey Coal Company,	17,196
Total,	2,687,166

Production by Counties

Luzerne,	2,455,825
Lackawanna,	231,341
Total,	2,687,166

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Lehigh Valley Coal Co.,	5	3	8	27	4	31	312,565	57,882	2,045	806	2,851	409	269	76	202
Temple Coal Co.,	5	----	5	10	1	11	94,361	47,181	592	265	858	119	----	59	265
Kingston Coal Co.,	----	1	1	5	1	6	----	70,510	545	253	798	----	253	109	253
Mount Lookout Coal Co.,	2	----	2	7	1	8	105,768	30,219	325	131	456	163	----	46	131
Healey Coal Co.,	----	----	----	----	1	1	----	----	41	17	58	----	----	----	17
Other Operators—no accidents,	----	----	----	----	----	----	----	----	87	63	100	----	----	----	----
Totals and averages,	12	4	16	49	8	57	223,931	54,840	3,586	1,535	5,121	299	384	73	192

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Lehigh Valley Coal Co.									
Maltby,	Luzerne,	C or Bottom Ross,	32	Shaft,	Gaseous,	1		4,370	
Mount Lookout Coal Co.									
Mount Lookout,	Luzerne,	E or Pittston,	90	Shaft,	Gaseous,	5		45,000	
Temple Coal Co.,*									
Totals,						6		49,370	

*Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Lehigh Valley Coal Co.						
Stevens.**	Luzerne,	Thomas Thomas,	Wilkes-Barre,	George P. Gallagher,	Wilkes-Barre,	Lehigh Valley.
Exeter,						
Westmoreland,						
Maltby,						
Broadwell,	Lackawanna,	Thomas Thomas,	Wilkes-Barre,	Sheldon Jones,	Wilkes-Barre,	Delaware & Hudson.
Heidelberg,	Luzerne,					Lehigh Valley.
Seneca,	Luzerne,					
William A.,	Lackawanna,					
Temple Coal Co.						
Forty Fort,	Luzerne,	F. H. Hemelright,	Scranton,	James J. McCarty,	Luzerne,	Lehigh Valley.
Harry L.,						
Kingston Coal Co.						
Kingston No. 4,	Luzerne,	F. E. Zerbey,	Kingston,	Thomas H. Williams,	Kingston,	D. L. & W.; D. & H.; L. V.; C. R. R. of N. J.
Kingston No. 4 Washery,						
Mount Lookout Coal Co.						
Mount Lookout,	Luzerne,	F. H. Hemelright,	Scranton,	Bruce Weir,	Forty Fort,	L. V.; D. L. & W.
John Ames Coal Co.						
Phoenix Washery,	Luzerne,	T. H. John,	Forty Fort,			Lehigh Valley.
Exeter Coal Co.						
Kintz,	Luzerne,	F. W. Campbell,	Scranton,	F. W. Campbell,	Scranton,	Hauled to L. V. and D. L. & W. switch.
Healey Coal Co.						
Troy	Luzerne,	M. J. Healey,	Plains,			Lehigh Valley.

*New operation.
**Idle since February, 1919.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Lehigh Valley Coal Co.												
Stevens,†	Luzerne,					**	2					
Exeter,	Luzerne,	292,484	66,665	24,800	383,949	267	703	4	9	80,650	197,775	
Westmoreland,	Luzerne,	182,764	16,160	6,118	205,042	259	333		2	6,675	163,775	
Maltby,	Luzerne,	271,342	35,145	12,203	318,690	264	546	2	1	105,875	137,575	
Broadwell,†	Lackawanna,	61,421			61,421	278†	71			68,075	6,475	
Heidelberg,	Luzerne,	141,837	36,950	3,058	181,845	261	367	2	9	71,300	43,375	
Seneca,	Luzerne,	167,335	63,050	11,571	241,956	282	530		8	230,675	43,087	
William A.†	Lackawanna,	128,293	33,314	8,313	169,920	†	299		2	53,275	88,850	
Totals,		1,245,476	251,284	66,063	1,562,823		2,851	8	31	616,525	680,912	
Temple Coal Co.												
Forty Fort,	Luzerne,	219,100	30,405	3,870	253,375	261	449	3	6	80,300	107,400	
Harry E.,	Luzerne,	177,133	34,949	6,348	218,430	171	409	2	5	80,800	103,800	
Totals,		396,233	65,354	10,218	471,805		858	5	11	161,100	211,200	
Kingston Coal Co.												
Kingston No. 4,	Luzerne,	293,516	45,500	9,982	348,998	297	790	1	6	236,075	7,843	7,510
Kingston No. 4 Washery,	Luzerne,	3,554			3,554	53	8					
Totals,		297,070	45,500	9,982	352,552		798	1	6	236,075	7,843	7,510
Mount Lookout Coal Co.												
Mount Lookout,	Luzerne,	173,158	33,846	4,531	211,535	191	456	2	8	40,350	150,850	
John Ames Coal Co.												
Phoenix Washery,	Luzerne,	53,192	40		53,232	181	44					

**Idle. †Coal prepared at Seneca breaker,

Exeter Coal Co.												
Kintz,	Luzerne,	15,051	546	2,426	18,023	287	56	.....	.....	.....	25,000	.....
Healey Coal Co.												
Troy,	Luzerne,	16,472	320	404	17,196	265	58	.....	1	2,200	5,400	.....
Grand totals,	.....	2,196,652	396,890	93,624	2,687,166	.....	5,121	16	57	1,056,250	1,081,205	7,510

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Lehigh Valley Coal Co.,	Luzerne, Lackawanna,	----	--------	44	12,918	140	12,168	----	--------	9	1,125	97	48,542	30	22,209	461	----	8	6	35	2	481
Temple Coal Co.,		----	--------	14	3,600	38	3,805	----	--------	1	200	37	19,430	5	2,700	----	----	1	----	1	2	350
Kingston Coal Co.,		----	--------	12	3,600	37	5,800	----	--------	6	1,675	12	8,500	6	6,800	79	----	1	----	7	2	7,500
Mount Lookout Coal Co.,		----	--------	10	2,600	23	2,350	----	--------	5	860	28	13,500	3	2,900	----	----	1	----	10	2	600
John Ames Coal Co.,	Luzerne,	----	--------	1	150	----	--------	----	--------	----	--------	2	1,100	2	1,100	----	----	----	----	----	----	--------
Exeter Coal Co.,		----	--------	1	60	2	60	----	--------	----	--------	3	1,100	1	400	7	----	----	----	----	----	--------
Healey Coal Co.,		----	--------	2	150	1	50	----	--------	3	110	1	40	1	40	7	----	----	----	----	----	--------
Totals,		----	--------	84	23,078	241	24,233	----	--------	24	3,970	180	92,212	48	36,149	554	----	11	6	53	8	8,931

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipe men	Electricians	Doorboys	All other employes	
Lehigh Valley Coal Co.,	Luzerne, Lackawanna,	12	58	------	1,045	157	2	------	38	39	286	61	27	69	66	9	25	151	2,045
Temple Coal Co.,		2	6	8	248	63	1	1	1	1	111	22	5	25	14	5	13	67	593
Kingston Coal Co.,		3	5	8	221	92	------	------	4	4	83	17	8	13	24	4	9	50	515
Mount Lookout Coal Co.,		1	3	3	121	72	4	4	11	10	12	12	4	8	7	4	3	46	325
John Ames Coal Co.,	Luzerne,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Exeter Coal Co.,		2	------	------	17	10	------	------	------	6	1	------	------	------	------	------	------	1	37
Healey Coal Co.,		1	------	1	23	4	------	------	------	5	1	------	------	1	1	------	2	2	41
Totals,		21	72	20	1,675	398	7	5	54	65	494	112	44	116	112	22	52	317	3,586

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Lehigh Valley Coal Co.,	Luzerne, Lackawanna,	-------	12	16	95	131	11	9	46	1	25	460	806	2,851
Temple Coal Co.,	Luzerne,	2	2	6	16	18	10	7	60	-------	6	138	265	858
Kingston Coal Co.,	Luzerne,	1	1	7	27	44	10	2	-------	47	3	111	253	798
Mount Lookout Coal Co.,	Luzerne,	1	1	4	7	22	4	5	10	3	3	71	131	456
John Ames Coal Co.,	Luzerne,	1	1	-------	-------	1	3	-------	8	-------	1	29	44	44
Exeter Coal Co.,	Luzerne,	1	1	1	1	3	1	-------	3	-------	-------	8	19	56
Healey Coal Co.,	Luzerne,	1	1	1	1	2	-------	-------	6	-------	-------	5	17	58
Totals,	-------	7	19	35	147	221	39	23	133	51	38	822	1,535	5,121

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Lehigh Valley Coal Co.,	Lackawanna,	26	23	25	21	22	24	23	24	12	23	22	25	269
	Luzerne,													
Temple Coal Co.,	Luzerne,	21	19	21	16	17	19	19	19	10	18	17	20	216
Kingston Coal Co.,		26	24	27	22	24	26	26	25	25	25	23	24	297
Mount Lookout Coal Co.,		21	18	21	15	15	16	16	18	10	14	14	13	191
Exeter Coal Co.,		25	24	22	23	24	22	25	24	25	24	24	25	287
Healey Coal Co.,		26	23	25	22	22	23	24	23	12	21	21	23	265

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 5	Charles Kluck,	American,	Carpenter,	47	M	1	2	Exeter,		Machinery in carpenter shop. Outside.
7	James Poole,	American,	Laborer,	57	W			Heidelberg,		Cars at foot of breaker tower. Outside.
Feb. 1	Joseph Ashler,	Polish,	Fireman,	35	M	1		Maltby,		Scalded by steam from hot ashes in boiler room. Outside.
11	Joseph Sabo,	German,	Miner,	53	M	1		Mount Lookout.		Falling timber loosened by force of explosion of gas.
19	Joseph Stinkavitch,	Lithuanian,	Miner,	43	M	1	1	Forty Fort,		Fall of coal at face of chamber.
Mar. 29	Joseph Cigurella,	Italian,	Miner,	24	M	1	1	Harry E.,		Falling timber at face of chamber.
June 23	Joseph Gurria,	Slavonian,	Laborer,	45	M	1		Mount Lookout.		Fall of coal at face of chamber.
	Joseph Hudock,	Slavonian,	Miner,	48	M	1	5	Exeter,	Luzerne,	Flying coal from blast in pillar work.
July 13	Peter Yasinchack,	Russian,	Runner,	42	M	1		Kingston No. 4		Railroad cars under breaker. Outside.
Aug. 2	Nick Mascaline,	Italian,	Miner,	53	M	1	2	Exeter,		Fall of top rock at face of pillar.
7	Joseph Christian,	Lithuanian,	Miner,	27	S			Harry E.,		Blast in chamber.
20	John Smith,	American,	Doorboy,	17	S			Forty Fort,		Electricity. Came into contact with feed wire on gangway.
28	John Lokuta,	Lithuanian,	Miner,	52	M	1	4	Heidelberg,		Fall of roof in pillar work.
Sept. 25	James Murray,	American,	Footman,	32	M	1	1	Maltby,		Electricity. Came into contact with trolley wire while riding on motor on gangway.
Oct. 11	Pasquale Spigarelli,	Italian,	Miner,	40	M	1		Exeter,		Cars on gangway.
14	Joseph Anoski,	Polish,	Miner,	26	M	1	1	Forty Fort,		Fall of coal on pillar work.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 6	Joseph Kulash,	Polish,	Laborer,	38	S	Mount Lookout,	Luzerne,	Fall of rock at face of chamber.
7	Stanley Geroski,	Polish,	Miner,	27	S	Heidelberg,		Fall of coal in chamber.
	Joseph Wakoms,	American,	Laborer,	24	S	Seneca,		Explosion of blast.
9	Thomas Dooner,	American,	Miner,	55	M	Heidelberg,		Fall of rock on pillar work.
12	Michael Belladands,	Lithuanian,	Miner,	35	M	Harry E.,		Fall of top rock.
14	George Bigelow,	American,	Miner,	57	M	Westmoreland,		Timber falling.
	Dominic Corsma,	Italian,	Miner,	44	S	Exeter,		Fall of rock in chamber.
30	Stanley Valansky,	Slavonian,	Laborer,	42	M	Forty Fort,		Fall of coal in chamber.
	Anthony Saltowski,	American,	Laborer,	17	S	Heidelberg,		Mine cars. Outside.
	John Roman,	Lithuanian,	Laborer,	32	M	Mount Lookout,		Fall of rock in chamber.
Feb. 7	John Renchick,	Polish,	Miner,	52	M	Heidelberg,		Fall of rock in chamber.
18	Frank Regula,	Polish,	Driver,	18	S	Heidelberg,		Fall of rock on gangway.
19	Wasil Yastizenski,	Polish,	Laborer,	32	S	Mount Lookout,		Fall of rock in chamber.
	John Obrian,	American,	Timberman,	20	M	Seneca,		Motor on gangway.
24	Adolph Lugi,	Italian,	Miner,	51	M	Exeter,		Explosion of blast.
28	John Kush,	Polish,	Laborer,	45	M	Kingston No. 4,		Cars near breaker. Outside.
Mar. 9	Joseph Yackaboskie,	Russian,	Miner,	41	M	Heidelberg,		Cars on gangway.
17	John Brodala,	Lithuanian,	Miner,	30	M	Seneca,		Coal from blast.
18	Gregona Biliotti,	Italian,	Miner,	42	M	William A,	Lackawanna,	Fall of coal in chamber.
23	Joseph Chiri,	Italian,	Miner,	43	M	Exeter,	Luzerne,	Fall of coal in chamber.
April 19	George Porgots,	Slavonian,	Laborer,	66	M	Forty Fort,		Struck by wrench—opening door on railroad car. Outside.
23	Frank Fordak,	Slavonian,	Trackman,	43	M	Kingston No. 4,		Falling—foot caught in latch.
24	Joseph Mislan,	Slavonian,	Driver,	24	S	Exeter,		Caught between car and prop.
26	Andrew Ondish,	American,	Driver,	18	S	Forty Fort,		Struck by a pulley.
30	Nick Yansko,	Slavonian,	Miner,	37	M	Forty Fort,		Flying coal from blast.
May 22	Edward Banta,	American,	Runner,	24	M	Harry E.,		Cars.
June 3	Mike Zelerich,	Russian,	Laborer,	52	M	Forty Fort,		Fall of rock from rib.
	Luke Holland,	Irish,	Miner,	57	M	Seneca,		Handling piece of coal.
4	Richard Parsons,	American,	Assistant mine-foreman.	39	M	Troy,	Luzerne,	Brake handle on engine. Outside.
7	Adolph Sodi,	Lithuanian,	Miner,	28	S	Kingston No. 4,		Fall of coal in chamber.
8	Willis Brown,	American,	Electrician,	23	S	Mount Lookout,		Falling from pole in yard. Outside.
16	Louis Fanucni,	Italian,	Miner,	54	M	Seneca,		Fall of rock in face of chamber.
	Henry Shirtz,	American,	Driver,	17	S	Seneca,		Cars on gangway.
25	Joseph Hudock,	Polish,	Miner,	47	M	Heidelberg,		Fall of coal in chamber.
July 10	Joseph Caroins,	Lithuanian,	Laborer,	55	M	Kingston No. 4,		Fall of coal from rib.
20	Frank Deguizo,	Lithuanian,	Miner,	54	M	Harry E.,		Squeezed between cars.
24	Bernard Bernoskie,	Russian,	Miner,	29	M	Heidelberg,		Fall of top rock.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
July 26	John Dickson,	American,	Pumpman,	64	M	Mount Lookout,		Caught in pump—oiling.
28	John Kurbitzer,	American,	Laborer,	23	S	Westmoreland,		Cars. Outside.
Aug. 7	Stanley Kagenskie,	Polish,	Miner,	46	M	Seneca,		Cars—blocking.
18	George Danko,	Slavonian,	Miner,	48	M	Exeter,		Fall of rock at face of chamber.
21	William Wertz,	American,	Carpenter,	24	M	Exeter,		Struck by pole—putting stack on boiler house. Outside.
28	John Yadeskie,	Polish,	Miner,	32	M	Heidelberg,	Luzerne,	Fall of rock in chamber.
Sept. 24	James Smith,	Irish,	Runner,	38	S	Exeter,		Cars—jumping on.
Oct. 6	Steve Miscavage,	Russian,	Miner,	50	M	Exeter,		Burned by gas—passed danger sign.
8	Joseph Sokalaskie,	Polish,	Miner,	46	M	Mount Lookout,		Explosion of blast.
19	Joseph Lukish,	Slavonian,	Runner,	19	S	Forty Fort,		Piece of coal sliding from gob.
23	Adam Jawarsky,	Polish,	Runner,	18	S	Mount Lookout,		Cars on gangway.
Nov. 9	John Darjanski,	Polish,	Miner,	27	S	Kingston No. 4,		Caught between car and timber.
18	Anthony Labinus,	Lithuanian,	Miner,	36	S	William A.,	Lackawanna,	Lifting in chamber.
21	Martin Kane,	American,	Carpenter,	25	S	Seneca,		Falling from trestle. Outside.
24	Walter Kremish,	Polish,	Miner,	28	S	Kingston No. 4,		Prop falling.
29	Walter Gustanskie,	Polish,	Driver,	19	S	Harry E.,		Falling under cars.
Dec. 15	Gallia Gallena,	Italian,	Miner,	28	S	Exeter,	Luzerne,	Fall of rock at face of chamber.
17	Louis Sholtz,	American,	Runner,	20	S	Maltby,		Cars on gangway.
23	Dominic Edonick,	Lithuanian,	Driver,	19	S	Harry E.,		Kicked by mule.
29	James Cawley,	American,	Brakeman,	20	S	Mount Lookout,		Explosion of gas.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in the Y. M. C. A. Rooms, Pittston, May 4 and 5.

The Board of Examiners was composed of Edwin C. Curtis, Inpector, West Pittston; James J. McCarty, Superintendent, Forty Fort; Thomas Grogan and John Evers, Miners, Luzerne.

The following persons passed a successful examination and were granted certificates:

MINE FOREMEN

Frank Panchison, David Buffton, Lawrence M. Barrett, Thomas Hislop, Wyoming; Idris Mackevrican, William B. Jones, Forty Fort; Patrick McDonnell, James A. Bradbury, Kingston; William H. Thornton, Allison H, Thornton, Duryea; Raymond H. Coulter, Wilkes-Barre.

ASSISTANT MINE FOREMEN

Stanley M. Yost, Harry Blank, Asher M. Protheroe, William E. Reed, Harry P. Zang, West Pittston; James F. Clark, Duryea; Thomas Beynon, Parsons; Michael Mizenko, Luzerne; John J. Fetch, Wyoming; John Wassel, George N. Petro, Exeter; Alban Wall, Kingston.

1920

TENTH DISTRICT

LUZERNE COUNTY

John B. Corgan, Inspector, Kingston.

SUMMARY OF STATISTICS

Collieries in operation, (breakers)	11
Washeries in operation,	..
Mines in district,	36
Gaseous mines in operation,	18
Non-gaseous mines in operation,	18
Tons of coal shipped to market,	2,758,961
Tons used at mines for steam and heat,	360,576
Tons sold to local trade and used by employes,	58,664
Tons produced (gross),	3,178,201
Persons employed inside,	4,358
Persons employed outside,	1,307
Persons employed inside between 16 and 21 years,	300
Persons employed outside between 14 and 21 years,	253
Fatal accidents inside,	9
Fatal accidents outside,	6
Serious non-fatal accidents inside,	35
Serious non-fatal accidents outside,	1
Tons produced per fatal accident inside,	353,133
Tons produced per fatal accident inside and outside,	211,880
Persons employed per fatal accident inside,	484
Persons employed per fatal accident outside,	218
Persons employed per fatal accident inside and outside,	378
Persons employed per non-fatal accident inside,	124
Persons employed per non-fatal accident outside,	1,307
Persons employed per non-fatal accident inside and outside,	157
Wives made widows,	10
Children made orphans,	22
Steam locomotives outside,	21
Electric motors inside,	61
Tubular boilers,	53
Steam engines of all classes,	234
Electric dynamos,	9
Pumps of all classes,	162
Pumps delivering water to surface,	32
Air compressors,	32
Fans in use,	25

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Hudson Coal Company,	1,022,975
Lehigh Valley Coal Company,	695,359
Delaware, Lackawanna and Western Railroad Company	578,198
Haddock Mining Company,	170,638
East Boston Coal Company,	164,115
Traders Coal Company,	154,059
Wilkes-Barre Colliery Company,	142,463
Raub Coal Company,	87,499
Central Coal Company,	67,026
John Conlon Coal Company,	66,009
Healey Coal Company,	29,860
Total,	3,178,201

Production by Counties

Luzerne,	3,178,201

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	1	1	2	6	1	7	1,022,975	170,495	1,152	396	1,548	1,152	396	192	396
Lehigh Valley Coal Co.,	1	2	3	11	------	11	696,359	63,214	934	179	1,113	934	89	85	----------
Delaware, Lackawanna and Western Railroad Co.	------	1	1	4	------	4	----------	144,549	685	178	863	----------	178	171	----------
Haddock Mining Co.,	------	------	------	4	------	4	----------	42,660	252	111	363	----------	----------	63	----------
East Boston Coal Co.,	1	------	1	3	1	4	164,115	54,705	305	113	418	305	----------	102	113
Traders Coal Co.,	1	1	2	1	------	1	154,059	154,059	270	90	360	270	90	270	----------
Wilkes-Barre Colliery Co.,	3	------	3	2	------	2	47,488	71,232	283	72	355	94	----------	142	----------
Raub Coal Co.,	1	------	1	------	------	------	87,499	----------	183	71	254	183	----------	----------	----------
Central Coal Co.,	------	------	------	1	------	1	----------	67,026	128	36	164	----------	----------	128	----------
John Conlon Coal Co.,	1	------	1	------	1	1	66,009	----------	96	23	119	96	----------	----------	23
Healey Coal Co.,	------	1	1	1	------	1	----------	29,860	70	38	108	----------	38	70	----------
Totals and averages,	9	6	15	33	3	36	353,133	96,309	4,358	1,307	5,665	484	218	132	436

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co. Pine Ridge,	Luzerne,	R. H. Buchanan,	Scranton,	John B. T. Jones,	Miners Mills,	Delaware & Hudson.
Lehigh Valley Coal Co. Henry, Mineral Spring,	Luzerne,	Thomas Thomas,	Wilkes-Barre,	John Haertter, P. S. Warriner,	Wilkes-Barre, Wilkes-Barre,	Lehigh Valley.
Delaware, Lackawanna and Western Railroad Co. Pettebone,	Luzerne,	S. D. Dimmick,	Scranton,	J. L. Reynolds,	Dorrancetown,	D., L. & W.
Haddock Mining Co. Black Diamond,	Luzerne,	John C. Haddock,	Wilkes-Barre,	David S. Morris,	Luzerne,	Lehigh Valley.
East Boston Coal Co. East Boston,	Luzerne,	W. T. Payne,	Kingston,	H. F. Reilly,	Forty Fort,	D., L. & W., L. V.
Traders Coal Co. Ridgewood,	Luzerne,	W. L. Schlager,	Scranton,	M. J. McHale,	Parsons,	New York Central.
Wilkes-Barre Colliery Co. Madeira,	Luzerne,	Thomas R. Jones,	Fracksville,	M. Bruce Holder,	Hudson,	Delaware & Hudson.
Raub Coal Co. Louise,	Luzerne,	Gwillym Edwards,	Luzerne,	Gwillyn Edwards,	Luzerne,	Lehigh Valley.
Central Coal Co. Wyoming,	Luzerne,	A. F. Wolf,	Wilkes-Barre,	W. J. Startzell,	Hudson,	Delaware & Hudson.
John Conlon Coal Co. Conlon,	Luzerne,	John Conlon,	Hudson,	Philip Condron,	Plains,	Delaware & Hudson.
Healey Coal Co. Miners Mills,	Luzerne,	M. J. Healey,	Plains,	Edward Jenkins,	Plains,	Lehigh Valley.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Pine Ridge,	Luzerne,	870,505	140,017	12,453	1,022,975	295	1,548	2	7	567,000	110,188	199,749
Lehigh Valley Coal Co.												
Henry, +	Luzerne,	374,351	62,193	6,256	442,800	251	654	1	7	183,700	190,475	1,075
Mineral Spring,		214,671	29,767	8,121	252,559	252	459	2	4	36,500	144,825	----------
Totals,		589,022	91,960	14,377	695,359	--------	1,113	3	11	220,200	335,300	1,075
Delaware, Lackawanna and Western Railroad Co.												
Pettebone,	Luzerne,	521,870	47,550	8,778	578,198	299	863	1	4	255,900	186,701	118,000
Haddock Mining Co.												
Black Diamond,	Luzerne,	138,429	27,450	4,759	170,638	239	363	--------	4	39,375	56,000	1,050
East Boston Coal Co.												
East Boston,	Luzerne,	113,773	45,625	4,717	164,115	302	418	1	4	981	6,850	49,291
Traders Coal Co.												
Ridgewood,	Luzerne,	152,084	900	1,075	154,059	259	360	2	1	120,000	36,000	----------
Wilkes-Barre Colliery Co.												
Madeira,	Luzerne,	137,957	1,244	3,262	142,463	281	355	3	2	141,100	28,410	----------
Raub Coal Co.												
Louise,	Luzerne,	80,614	2,000	4,885	87,499	227	254	1	--------	1,875	14,775	45,125
Central Coal Co.												
Wyoming,	Luzerne,	65,039	1,250	737	67,026	282	164	--------	1	87,425	5,140	11,029

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
John Conlon Coal Co.												
Conlon,	Luzerne,	62,567	200	3,242	66,009	303	119	1	1	33,750	15,000	1,500
Healey Coal Co.												
Miners Mills,	Luzerne,	27,101	2,380	379	29,860	254	108	1	1	24,000	3,000	----------
Grand totals,		2,758,961	360,576	58,664	3,178,201	--------	5,665	15	36	1,491,606	797,364	426,819

+Coal prepared at Prospect breaker, 11th District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilo-watts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.,	Luzerne.	----	--------	15	5,208	123	12,119	----	--------	3	900	47	26,790	7	5,200	153	----	7	----	20	10	8,405
Lehigh Valley Coal Co.,		----	--------	6	3,050	46	4,345	----	--------	2	28	43	18,600	4	7,122	203	----	8	----	7	4	3,161
Delaware, Lackawanna and Western Railroad Co.,		----	--------	13	2,259	29	9,167	----	--------	----	--------	2	1,534	2	950	8	----	3	----	21	3	2,115
Haddock Mining Co.,		----	--------	2	250	6	600	----	--------	1	100	20	8,450	4	2,000	47	----	1	----	----	8	3,500
East Boston Coal Co.,		----	--------	8	1,942	27	1,258	----	--------	1	60	23	8,324	3	4,500	73	----	----	----	----	3	7,500
Traders Coal Co.,		----	--------	2	10	----	--------	----	--------	1	16	3	5,000	2	4,000	37	----	----	----	4	2	1,246
Wilkes-Barre Colliery Co.,		----	--------	1	75	----	--------	----	--------	1	100	7	1,500	1	250	19	----	----	----	5	1	1,900
Raub Coal Co.,		----	--------	2	600	----	--------	----	--------	----	--------	7	4,000	2	1,500	31	----	----	----	4	2	300
Central Coal Co.,		----	--------	1	125	----	--------	----	--------	----	--------	8	880	7	790	5	----	1	----	----	1	--------
John Conlon Coal Co.,		----	--------	1	50	----	--------	----	--------	----	--------	2	700	----	--------	14	----	----	----	----	2	400
Healey Coal Co.,		----	--------	2	250	3	160	----	--------	----	--------	----	--------	----	--------	16	----	1	----	----	1	600
Totals,		----	--------	53	13,819	234	27,649	----	--------	9	1,204	162	75,778	32	26,312	606	----	21	----	61	32	29,211

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																		Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Luzerne,	3	11	14	512	170	7+	11	27	27	178	34	14	11	14	3	2	114	1,152
Lehigh Valley Coal Co.,	Luzerne,	4	31	------	399	71	------	------	8	8	155	32	18	29	15	1	38	125	934
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	2	13	------	310	81	------	------	22	22	20	20	12	19	4	6	9	145	685
Haddock Mining Co.,	Luzerne,	1	2	2	93	64	------	------	1	1	30	5	1	20	12	1	2	17	252
East Boston Coal Co.,	Luzerne,	1	4	5	84	46	------	------	------	------	55	------	------	30	8	------	2	70	305
Traders Coal Co.,	Luzerne,	1	5	1	144	46	------	------	4	4	25	8	------	2	5	2	3	20	270
Wilkes-Barre Colliery Co.,	Luzerne,	1	4	2	144	50	------	------	6	3	22	7	2	2	5	5	------	30	283
Raub Coal Co.,	Luzerne,	4	3	1	82	42	------	------	6	2	28	4	1	4	3	------	------	3	183
Central Coal Co.,	Luzerne,	1	2	------	76	13	------	------	------	------	11	3	1	2	2	------	2	15	128
John Conlon Coal Co.,	Luzerne,	1	2	2	29	32	2+	2	------	------	24	2	------	------	------	------	------	------	96
Healey Coal Co.,	Luzerne,	1	1	3	32	10	------	------	------	------	11	2	1	1	------	------	------	8	70
Totals,		20	78	30	1,905	625	9	13	74	67	559	117	50	120	68	18	58	547	4,358

+No production by machines reported.

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Luzerne,	1	4	15	24	82	13	-------	-------	21	13	223	396	1,548
Lehigh Valley Coal Co.,		2	2	2	6	49	2	6	5	3	5	97	179	1,113
Delaware, Lackawanna and Western Railroad Co.,		1	2	6	15	29	2	4	26	-------	3	90	178	863
Haddock Mining Co.,		1	1	1	9	13	2	-------	22	-------	2	60	111	363
East Boston Coal Co.,		1	3	2	6	18	5	2	10	1	4	61	113	418
Traders Coal Co.,		-------	1	2	8	5	1	2	24	7	2	38	90	360
Wilkes-Barre Colliery Co.,		1	-------	2	5	8	1	1	5	5	3	41	72	355
Raub Coal Co.,		1	2	2	4	4	1	2	10	4	3	38	71	254
Central Coal Co.,		-------	1	2	2	3	-------	2	11	-------	4	11	36	164
John Conlon Coal Co.,		-------	1	1	1	1	1	-------	-------	-------	2	16	23	119
Healey Coal Co.,		1	1	1	2	8	-------	-------	11	-------	3	11	38	108
Totals,	-------	9	18	36	82	220	28	19	124	41	44	686	1,307	5,665

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Luzerne.	30	21	28	26	25	26	27	27	11	26	22	26	295
Lehigh Valley Coal Co.,		24	21	25	19	19	22	22	22	14	20	21	23	252
Delaware, Lackawanna and Western Railroad Co.,		28	25	28	15	25	26	26	26	25	25	24	26	299
Haddock Mining Co.,		23	20	24	15	17	19	20	20	20	18	21	22	239
East Boston Coal Co.,		26	24	27	24	24	26	26	26	25	25	23	26	302
Traders Coal Co.,		26	22	25	20	22	25	24	26	10	14	22	23	259
Wilkes-Barre Colliery Co.,		26	21	27	23	24	26	25	26	11	24	23	25	281
Raub Coal Co.,		26	24	23	18	17	18	18	18	12	17	17	19	227
Central Coal Co.,		26	23	27	24	24	26	26	26	10	23	23	24	282
John Conlon Coal Co.,		26	24	27	24	25	26	26	26	25	25	23	26	303
Healey Coal Co.,		26	23	27	24	24	14	15	20	9	23	23	26	254

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Feb. 28	George Macho,	Austrian,	Laborer,	26	M.	1		Henry,		Smothered in pocket of railroad car. Outside.
March 2	George Welgez,	Polish,	Miner,	32	S.			Madeira,		Flying coal from blast.
10	Louis Osika,	Polish,	Miner,	49	M.	1	7	Pine Ridge,		Cars on plane.
April 27	Mike Olderis,	Polish,	Miner,	28	M.	1	1	Conlon,		Fall of coal in face of chamber.
29	John Semanis,	Lithuanian,	Miner,	33	M.	1	3	Louise,		Fall of rock at face of gangway.
May 3	Mike Greenawich,	Lithuanian,	Miner,	39	M.	1	4	East Boston,		Fall of rock in face of chamber.
8	Frank Petroski,	American,	Driver,	17	S.			Ridgewood,		Caught in harness and dragged by mules. Outside.
15	Felix Vinoski,	Polish,	Miner,	28	M.	1	2	Madeira,		Fall of rock in pillar work.
June 24	Andro Moris,	Polish,	Laborer,	16	S.			Miners Mills,	Luzerne,	Smothered in coal pocket. Outside.
Sept. 5	Stephen Polachak,	American,	Laborer,	20	M.	1		Pine Ridge,		Smothered by rush of culm. Outside.
23	Patrick Kennedy,	American,	Bratticeman,	23	M.	1	1	Mineral Spring,		Burned by explosion of gas in old workings.
29	William Baron,	Russian,	Pulleyman,	34	M.	1	2	Ridgewood,		Car on slope.
Oct. 8	Sam Boretski,	Polish,	Engineer,	22	S.			Madeira,		Electricity. Found on plane with broken light wire in hand.
Nov. 20	Joe Rukofskie,	Polish,	Miner,	49	W.		1	Mineral Spring,		Cars. Outside.
Dec. 14	Jay Straka,	Slavonian,	Footman,	50	M.	1	1	Pettebone,		Derailed car. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 7	Ben. Vaughn,	Scotch,	Laborer,	52	M.	East Boston,		Struck by prop. Outside.
Feb. 6	Mike Shackish,	Russian,	Laborer,	37	M.	Black Diamond,		Falling off moving cars.
March 6	Stanley Bohinski,	American,	Runner,	19	S.	Pine Ridge,		Explosion of gas at face of place.
15	Charles Trapania,	Italian,	Driver,	18	S.	Black Diamond,		Caught between roof and car on gangway.
16	Cecil Krause,	American,	Runner,	19	S.	East Boston,		Flying coal from blast.
18	Joseph Gallagher,	American,	Miner,	57	M.	Pettebone,		Slide of rock on plane.
29	Edgar Griffith,	American,	Bratticeman,	35	S.	Pettebone,		Caught by car wheel.
	John Kinney,	American,	Driver,	18	S.	Pine Ridge,		Caught between mule and car.
April 20	Joseph Philips,	American,	Driver,	16	S.	Pine Ridge,		Falling timber in gangway.
28	Leo Kubiak,	American,	Laborer,	17	S.	Conlon,		Pinned under car. Outside.
May 6	Dominic Balanae,	Italian,	Miner,	34	M.	Black Diamond,		Fall of rock in gangway.
7	Stanley Leczinski,	Polish,	Miner,	33	S.	Henry,		Explosion of gas in face of chamber.
17	James Menelli,	Italian,	Miner,	50	M.	Henry,		Premature blast in face of chamber.
	Andrew Matiska,	Russian,	Miner,	31	M.	Mineral Spring,		Fall of top bench in face of chamber.
	Edward Davis,	Welsh,	Runner,	18	S.	Pettebone,		Caught in latch.
June 4	Frank Suepplini,	Italian,	Miner,	34	S.	Ridgewood,		Struck by rope on plane.
10	George Zahorchak,	Russian,	Miner,	30	S.	Pine Ridge,	Luzerne,	Premature blast.
28	Mike Mosheskey,	Austrian,	Laborer,	55	M.	East Boston,		Caught between cars.
July 1	Arganto Pisaneski,	Italian,	Laborer,	16	S.	Mineral Spring,		Fall of rock in chamber.
2	John Koek,	Polish,	Miner,	37	M.	Miners Mills,		Fall of coal in face of chamber.
6	Joseph Bala,	Polish,	Miner,	27	S.	Pine Ridge,		Premature blast.
17	Patrick Hammon,	American,	Laborer,	18	S.	Pine Ridge,		Caught between cars. Outside.
	Ben Priola,	Italian,	Laborer,	26	S.	Mineral Spring,		Fall of top coal.
20	George Powell,	Welsh,	Bratticeman,	53	S.	Henry,		Loaded trip caught door prop.
Aug. 18	Sam Stedlenski,	Russian,	Miner,	37	M	Mineral Spring,		Falling prop.
28	Thos. Bolaskie,	Polish,	Miner,	42	M.	Henry,		Fall of top rock.
Sept. 1	Michael Antosh,	Polish,	Miner,	45	M.	Pine Ridge,		Fall of rock in face of chamber.
24	Thos. Matska,	Polish,	Miner,	37	M.	Madeira,		Premature blast.
27	John Beada,	Polish,	Miner,	27	S.	Madeira,		Explosion of gas in face of chamber.
Oct. 1	Peter Lavelle,	American,	Runner,	38	M.	Henry,		Kicked by mule.
7	Peter Ferarri,	Italian,	Driver,	18	S.	Henry,		Dragged under car.
Nov. 23	John Scharat,	Slavonian,	Runner,	39	M.	Black Diamond,		Caught under car.
26	Frank Kacaba,	Polish,	Miner	45	M.	Henry,		Premature blast.
Dec. 15	George Petroski,	Lithuanian,	Miner,	26	M.	East Boston,		Fall of coal off rib.
28	John Bellas,	Lithuanian,	Laborer,	46	M.	Pettebone,		Struck by rope in gangway.
31	Fablan Yares,	Polish,	Miner,	22	M.	Wyoming,		Timber falling.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held May 4 and 5 in Bergan Hall, Kingston. The Board of Examiners was composed of John B. Corgan, Inspector; Gilbert S. Jones, Superintendent, Dorranceton; Thomas Thornton, Miner, Parsons; William J. Cotter, Miner, Wyoming.

The following persons passed a successful examination and were granted certificates:

MINE FOREMEN

Robert Laverick, Miners Mills; Barney Bezdciezkie, Breslau; Michael J. Bandish, Plymouth; Thomas Thomas, Edwardsville; Benjamin Eckertt, Hudson; Con Maloney, James M. Duffy, Edward Llewellyn, James A. Donohue, Parsons; Joseph C. August, Pittston; Alfred Morgan, Bernard P. Lamparski, John G. Curran, Hector Ferruggiari, Wilkes-Barre; Charles J. Golden, Avoca; Frank Wilkes, Larksville; Patrick M. Pryor, Luzerne.

ASSISTANT MINE FOREMEN

Joseph Sarnak, Maltby; John Kopetchny, Swoyersville; Frank Sepkowski, Micheal J. Kotch, Stanley Przyborowski, Joseph A. Winiecki, John Zukoski, Joseph Lulewicz, Plymouth; William Kishbaugh, John J. Moran, Dorranceton; Stephen Nemshick, Joseph Gibbons, Larksville; Charles Pope, Frank L. Roach, John Alderson, Luzerne; Frank Rowker, Laslin; John Smith, Benjamin Farrell, George Brown, Alfred Yale, Pernard A. Burke, Anthony J. Andrews, Thomas F. McKeown, Robert Watkins, James F. Gallagher, Charles Solomon, Thomas W. Ganard, Alexander Paterson, David J. Williams, Patrick Kennedy, Parsons; William R. Williams, Chester J. Everett, George Stamer, James Buttson, Daniel Evertts, Wilkes-Barre; Jonathan Laverick, Forty Fort; Joseph Soltysiak, Adam Bocwinsky, Pittston; Steve J. Sibilski, Port Griffiths; Frank Charnecki, Breslau; James Holland, East End.

1920

ELEVENTH DISTRICT

LUZERNE COUNTY

Thomas J. Williams, Inspector, Wilkes-Barre

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	2
Mines in district,	23
Gaseous mines in operation,	21
Non-gaseous mines in operation,	2
Tons of coal shipped to market,	2,350,717
Tons used at mines for steam and heat,	362,635
Tons sold to local trade and used by employes,	278,605
Tons produced (gross)	2,991,957
Persons employed inside,	4,247
Persons employed outside,	1,517
Persons employed inside between 16 and 21 years,	333
Persons employed outside between 14 and 21 years,	195
Fatal accidents inside,	20
Fatal accidents outside,	3
Serious non-fatal accidents inside,	63
Serious non-fatal accidents outside,	7
Tons produced per fatal accident inside,	149,598
Tons produced per fatal accident inside and outside,	130,085
Persons employed per fatal accident inside,	212
Persons employed per fatal accident outside,	506
Persons employed per fatal accident inside and outside,	251
Persons employed per non-fatal accident inside,	67
Persons employed per non-fatal accident outside,	217
Persons employed per non-fatal accident inside and outside,	82
Wives made widows,	16
Children made orphans,	19
Steam locomotives outside,	21
Compressed air locomotives inside,	10
Electric motors inside,	47
Tubular boilers,	91
Steam engines of all classes,	343
Internal combustion engines (gas),	1
Electric dynamos,	13
Pumps of all classes,	124
Pumps delivering water to surface,	29
Air compressors,	24
Fans in use,	29

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Lehigh and Wilkes-Barre Coal Company,	1,170,156
Lehigh Valley Coal Company,	913,695
Hudson Coal Company,	737,551
Red Ash Coal Company,	107,253
Hillman Coal Company,	63,302
Total,	2,991,957

Production by Counties

Luzerne,	2,991,957

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Lehigh and Wilkes-Barre Coal Co.	9	------	9	28	4	32	130,017	41,791	1,940	579	2,539	216	145	69	145
Lehigh Valley Coal Co.,	8	2	10	16	1	17	114,212	57,106	1,165	309	1,474	146	155	73	309
Hudson Coal Co.,	2	------	2	17	1	18	368,776	43,385	871	332	1,203	486	------	57	332
Red Ash Coal Co.,	------	1	1	------	1	1	------	------	40	250	290	------	250	------	250
Hillman Coal Co.,	1	------	1	2	------	2	63,302	31,651	131	47	178	131	------	66	------
Totals and averages,	20	3	23	63	7	70	149,598	47,491	4,247	1,517	5,764	212	506	67	217

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Lehigh and Wilkes-Barre Coal Co. Hollenback No. 2, South Wilkes-Barre No. 5, Stanton No. 7, Empire Washery,	Luzerne,	C. F. Huber,	Wilkes-Barre,	Douglas Bunting,	Wilkes-Barre,	C. R. R. of N. J.
Lehigh Valley Coal Co. Prospect, Dorrance,	Luzerne,	Thomas, Thomas,	Wilkes-Barre,	John H. Haertter,	Wilkes-Barre,	Lehigh Valley
Hudson Coal Co. Baltimore No. 5, Baltimore No. 5 Washery,	Luzerne,	R. H. Buchanan,	Scranton,	Edward Flynn,	Wilkes-Barre,	Delaware & Hudson
Red Ash Coal Co. Red Ash No. 2,**	Luzerne,	William D. Jones,	Wilkes-Barre,	William D. Jones,	Wilkes-Barre,	C. R. R. of N. J.
Hillman Coal Co.* Hillman,	Luzerne,	W. B. Paxson,	Wilkes-Barre,			Lehigh Valley

** Red Ash No. 2 Slope idle on account of mine fire; stripping in operation.
* Formerly Wilkes-Barre Anthracite Coal Co.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Lehigh and Wilkes-Barre Coal Co.												
Hollenback No. 2,	Luzerne,	145,661	31,158	70,328	247,147	281	570	2	4	95,850	14,477	91,025
South Wilkes-Barre No. 5,	Luzerne,	211,219	39,466	96,361	347,046	280	729	2	10	89,725	21,682	130,837
Stanton No. 7,	Luzerne,	465,470	49,398	29,055	543,923	280	1,178	5	18	245,100	27,123	164,975
		822,350	120,022	195,744	1,138,116	-------	2,477	9	32	430,675	63,282	386,837
Empire Washery,	-------	27,265	-------	4,775	32 040	173	42	-------	-------	-------	-------	-------
Totals,	-------	849,615	120,022	200,519	1,170,156	-------	2,519	9	32	430,675	63,282	386,837
Lehigh Valley Coal Co.												
Prospect,	Luzerne,	314,735	47,349	6,228	368,312	268	688	4	7	203,950	77,075	14,925
Dorrance,	Luzerne,	424,397	65,272	55,714	545,383	271	786	6	10	51,732	94,150	-------
Totals,	-------	739,132	112,621	61,942	913,695	-------	1,474	10	17	255,682	171,225	14,925
Hudson Coal Co.												
Baltimore No. 5,	Luzerne,	611,263	96,067	13,405	720,735	303	1,303	2	18	267,475	49,671	186,996
Baltimore No. 5, Washery,	Luzerne,	16,816	-------	-------	16,816	303	XX	-------	-------	-------	-------	-------
Totals,	-------	628,079	96,067	13,405	737,551	-------	1,303	2	18	267,475	49,671	186,996

XX Employes included with Baltimore No. 5 Colliery.

TABLE 2.—PART 1. Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Red Ash Coal Co.												
Red Ash No. 2,**	Luzerne,	91,065	14,825	1,363	107,253	219	290	1	1	6,450	10,700	10,020
Hillman Coal Co.*												
Hillman,	Luzerne,	42,826	19,100	1,376	63,302	234	178	1	2	44,400	8,792	
Grand totals,		2,350,717	362,635	278,605	2,991,957		5,764	23	70	1,004,682	303,670	598,778

** Red Ash No. 2 Slope idle on account of mine fire; stripping in operation.
* Formerly Wilkes-Barre Anthracite Coal Co.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	----	--------	38	7,712	166	19,584	----	--------	2	1,000	36	16,285	9	2,559	290	----	5	10	7	6	13,006
Lehigh Valley Coal Co.,	Luzerne,	----	--------	17	4,753	50	11,735	----	--------	6	925	28	9,300	5	5,800	146	----	4	----	27	3	3,840
Hudson Coal Co.,	Luzerne,	----	--------	29	6,856	103	13,991	----	--------	3	1,355	57	27,055	12	3,800	160	----	6	----	10	10	6,545
Red Ash Coal Co.,	Luzerne,	----	--------	3	900	16	1,210	1	6	----	--------	2	1,000	2	850	32	----	6	----	----	2	300
Hillman Coal Co.,	Luzerne,	----	--------	4	2,000	8	610	----	--------	2	800	1	800	1	800	18	----	----	----	3	3	800
Totals,		----	--------	91	22,220	343	47,130	1	6	13	4,080	124	54,440	29	13,809	646	----	21	10	47	24	24,491

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	4	5	50	793	333	------	------	14	13	166	37	22	55	17	------	102	329	1,940
Lehigh Valley Coal Co.,	Luzerne,	7	37	------	488	75	------	------	27	26	129	29	26	83	15	2	51	170	1,165
Hudson Coal Co.,	Luzerne,	3	18	8	308	258	------	------	9	9	165	37	14	23	14	4	3	98	971
Red Ash Coal Co.,	Luzerne,	1	2	------	15	6	------	------	------	------	4	2	------	4	3	------	------	3	40
Hillman Coal Co.,	Luzerne,	1	1	5	35	14	------	------	3	3	23	4	3	6	5	4	4	20	131
Totals,	------	16	63	63	1,639	686	------	------	53	51	487	109	65	171	54	10	160	620	4,247

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	-------	5	7	13	98	4	6	50	11	14	371	579	2,519
Lehigh Valley Coal Co.,	Luzerne,	-------	2	3	12	50	3	3	17	23	9	187	309	1,474
Hudson Coal Co.,	Luzerne,	1	3	9	16	79	8	-------	-------	19	11	186	332	1,303
Red Ash Coal Co.,	Luzerne,	1	1	4	10	27	2	2	9	4	2	188	250	290
Hillman Coal Co.,	Luzerne,	1	1	2	3	12	1	-------	6	-------	3	18	47	178
Totals,	-------	3	12	25	54	266	18	11	82	57	39	950	1,517	5,764

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	26	21	26	17	23	26	25	24	20	24	23	25	280
Lehigh Valley Coal Co.,	Luzerne,	25	22	26	20	21	23	24	24	19	22	21	23	270
Hudson Coal Co.,	Luzerne,	25	20	25	23	24	23	30	30	23	29	24	27	303
Red Ash Coal Co.,	Luzerne,	20	17	22	6	15	18	22	20	17	21	20	21	219
Hillman Coal Co.,	Luzerne,	24	21	24	11	17	20	20	19	17	21	19	21	234

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 29	George Savage,	Lithuanian,	Miner,	55	M.	1		South Wilkes-Barre No. 5,	Luzerne,	Fall of top rock in old chamber
March 2	William Gardner,	American,	Loco. patcher,	19	S.			Red Ash No. 2,		Falling under trip of loaded cars in stripping. Outside.
8	Joseph Krondrawicz,	Polish,	Miner,	30	M.	1		Prospect,		Runaway car on slope.
April 20	Mike Wallen,	American,	Footman,	26	M.	1	2	Prospect,		Derailed car on slope.
26	Michael Yencha,	Austrian,	Miner,	55	M.	1	1	Hillman,		Premature blast in airway.
May 4	Mike Szalewicz,	Lithuanian,	Miner,	57	M.	1		South Wilkes-Barre No. 5,		Falling prop on gangway.
19	James Ralston,	American,	Electrician,	46	M.	1		Prospect,		Burned by electricity. Outside.
June 8	Andrew Zabava,	Polish,	Miner,	41	M.	1	1	Hollenback No. 2.		Fall of top rock at face of chamber.
21	Martin Mellett,	American,	Engineer,	37	M.	1	4	Stanton No. 7.		Fall of top rock at face of chamber.
July 1	August Zeewski,	Polish,	Miner,	36	M.	1	5	Hollenback No. 2.		Falling prop in chamber.
6	Joseph Vornko,	Polish,	Miner,	28	M.	1	3	Stanton No. 7		Fall of top rock at face of chamber.
29	Simon Kulboski,	Polish,	Miner,	40	M.	1		Prospect,		Fall of top rock at face of chamber.
Aug. 14	John Kairtt,	Lithuanian,	Miner's laborer,	45	S.			Stanton No. 7		Fall of top rock in chamber.
	Joseph Valinchus,	Lithuanian,	Miner's laborer,	49	M.	1	1			
20	Ben. Wasilenski,	American,	Driver,	18	S.			Dorrance,		Cars on slope.
Sept. 8	John A. Johnson,	Swedish,	Miner,	51	M.	1	2	Dorrance,		Premature blast at face of chamber.
17	James McAllister,	American,	Timberman,	49	S.			Dorrance,		Fall of top rock on gangway.
Oct. 23	Michael McLaughlin,	Irish,	Coal inspector,	64	W.			Dorrance,		Derailed car at breaker plane. Outside.
Nov. 5	Charles Moyles,	Lithuanian,	Miner,	38	M.	1		Stanton No. 7.		Premature blast at face of chamber.
6	Stanley Wastinoski,	Polish,	Door-tender,	49	M.	1		Dorrance,		Fall of top rock on slope.
Dec. 7	Thos. R. Davis,	Welsh,	Miner,	57	S.			Baltimore No. 5.		Premature blast at face of gangway.
23	Jacob Mohnty,	Austrian,	Miner,	53	M.	1		Baltimore No. 5.		Fall of top coal in pillar.
24	James Daley,	Irish,	Miner,	58	S.			Dorrance,		Fall of top coal at face of cross-cut.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 5	Mike Babilla,	Russian,	Patcher,	17	S.	Stanton No. 7,	Luzerne,	Fall of coal from rib.
19	Wm. Bacompas,	Lithuanian,	Miner,	54	M.	Dorrance,		Fall of coal from rib at face.
	Toney Kanbulski,	Russian,	Laborer,	43	S.	Dorrance,		Derailed car.
26	John Davis,	Welsh,	Stableman,	68	M.	Stanton No. 7,		Caught by piece of wire in stable.
Feb. 6	Edw. Kristoponis,	Polish,	Miner,	40	M.	Dorrance,		Caught between cars on gangway.
10	Joe Chedavskas,	Lithuanian,	Laborer,	27	S.	South Wilkes-Barre No. 5,		Struck by set of timber dislodged at face.
25	Joe Rushofsky,	Polish,	Miner,	30	M.	Dorrance,		Fall of rock at face.
March 4	Joe Kakaranskas,	Lithuanian,	Miner,	65	M.	Stanton No. 7,		Struck by piece of coal at face.
10	Adam Shencil,	Slavonian,	Miner,	46	M.	Stanton No. 7,		Struck by piece of coal on gangway.
13	Joseph Panek,	Polish,	Laborer,	20	S.	Stanton No. 7,		Fall of coal at face.
	Stephen Emrick,	Austrian,	Laborer,	31	M.	Baltimore No. 5,		Burned by gas ignited by lamp.
19	Mike Cadden,	American,	Footman,	45	S.	South Wilkes-Barre No. 5,		Struck by rolling timber.
24	John Salwaski,	American,	Driver,	20	S.	Hollenback No. 2,		Caught between car and door.
27	James McNeill,	American,	Carpenter,	27	S.	South Wilkes-Barre No. 5,		Caught between car and timber.
30	Henry A. Morgans,	Welsh,	Miner,	42	M.	Stanton No. 7,		Falling while carrying tools down plane.
April 6	Chas. Davenport,	American,	Headman,	23	M.	Baltimore No. 5,		Struck by wire rope on plane.
13	Geo. Ponanick,	Polish,	Miner,	29	M.	South Wilkes-Barre No. 5,		Blast in heading.
17	Wilbert Weichart,	American,	Driver,	16	S.	Baltimore No. 5,		Kicked by mule.
23	Richard Foxe,	American,	Carpenter,	53	M.	Prospect,		Side of chute failing. Outside.
May 2	Peter Rose,	American,	Laborer,	51	M.	Baltimore No. 5,		Derailed car on rock dump. Outside.
5	Frank Drobish,	Lithuanian,	Miner,	39	M.	Stanton No. 7,		Falling on loose coal in chamber.
6	Aleck Danilovitz,	Polish,	Miner's laborer,	47	M	Stanton No. 7,		Fall of top rock in breast.
10	Anty Marchawki,	Russian,	Miner's laborer,	39	M	Baltimore No. 5,		Cars in breast.
24	Walter Lewis,	American,	Patcher,	18	S	Hollenback, No. 2,		Fall of top clod on gangway.
27	Joe Burzumis,	Lithuanian,	Miner,	29	M	Dorrance,		Burned by gas in chamber.
28	Anty Selinsky,	American,	Driver,	18	S	Baltimore No. 5,		Run over by cars on gangway.
June 4	Frank Dorton,	American,	Driver,	18	S	Baltimore No. 5,		Falling on gangway.
15	Karl Rendelhuba,	American,	Runner,	28	S	Hillman,		Caught between car and rib on slope.
	Ignatz Kraszewski,	Polish,	Miner's laborer,	27	S	Hollenback, No. 2,		Struck by piece of coal in chamber.
18	Jacob Papciak,	Polish,	Miner,	54	M	Stanton No. 7,		Derailed car in chamber.
21	Adam Osgasazly,	Polish,	Miner,	45	M	Dorrance,		Struck by piece of rock in chamber.
24	John Patruska,	Slavonian,	Laborer,	28	M	Prospect,		Kicked by mule on gangway.
July 1	Louis Zabyki,	Polish,	Laborer,	25	S	Prospect,		Derailed car on gangway.
14	John Nelson,	Lithuanian,	Miner,	50	S	Stanton No. 7,		Caught between sprag and wheel of car in chamber.

July	14	Ray Buriani,	Italian,	Miner's laborer,	22	S	Baltimore No. 5,			Explosion of detonator—preparing charge.
	15	Adam Yasavitus,	Lithuanian,	Miner,	42	M	South Wilkes-Barre No. 5,			Fall of coal at face of chamber.
	19	Frank Skymba,	Russian,	Car blocker,	25	M	Red Ash No. 2,			Caught between cars. Outside.
	21	Edw. Rakus,	Polish,	Miner,	35	M	Baltimore No. 5,			Fall of coal from rib.
	23	Joe Kachumba,	Polish,	Runner,	20	S	Prospect,			Cars in chamber.
	26	Geo. Rolsick,	Slavonian,	Miner's laborer,	52	M	Baltimore No. 5,			Fall of top rock in chamber.
Aug.	6	Frank Jack,	Slavonian,	Miner,	57	M	Dorrance,			Struck by piece of pipe in chamber.
	12	John Barnish,	Polish,	Miner,	60	M	Baltimore No. 5,			Falling in chamber.
	13	Albert Smith,	Polish,	Slatepicker,	74	W	Stanton No. 7,			Struck by piece of coal in breaker. Outside.
	16	Bert Oliver,	American,	Miner,	28	M	Hillman,			Fall of top rock on gangway.
	17	Joe Malinas,	Lithuanian,	Miner's laborer,	44	M	South Wilkes-Barre No. 5,			Struck by pick handle in chamber.
Sept.	11	David Rowe,	American,	Runner,	44	M	Dorrance,			Derailed car on slope.
	14	Vincent Misuinas,	Lithuanian,	Miner,	30	M	Stanton No. 7,			Fall of top rock in chamber.
		Robt. Kelley,	American,	Oiler,	17	S	Prospect,			Struck by stick on gangway.
	23	Stanely Ustach,	Polish,	Miner,	55	M	Stanton No. 7,			Flying coal from blast in chamber.
Oct.	2	Blarek Patrova,	Polish,	Miner,	35	M	South Wilkes-Barre No. 5,			Fall of top rock at face of chamber.
	6	Patrick Kelley,	Irish,	Miner,	30	M	Stanton No. 7,			Fall of top clod at face of chamber.
	13	Mike Gregas,	Lithuanian,	Miner,	31	S	Stanton No. 7,	Luzerne,		Prop falling from platform on gangway.
	15	Qui Velckie,	American,	Miner,	22	M	Baltimore No. 5,			Fall of top coal at face of chamber.
	22	Anthony Dougherty,	Irish,	Bratticeman,	40	S				
		Herbert Johns,	American,	Company man,	34	S				
		John Harris,	American,	Runner,	36	M	Baltimore No. 5,			Burned by explosion of gas on gangway road.
		Michael Pecliskis,	Polish,	Miner's laborer,	40	M				
		Joseph Rogs,	Polish,	Miner,	35	M				
		Charles Somak,	Ukranian,	Miner's laborer,	28	M				
	26	Andrew Stanko,	American,	Headman,	18	S	Dorrance,			Cars on gangway.
		Andrew Ashanta,	Polish,	Miner,	39	W	Hollenback No. 2,			Fall of top rock at face of chamber.
Nov.	18	Jacob Stultz,	American,	Company man,	43	M	South Wilkes-Barre No. 5,			Struck by lever. Outside.
	23	William Morris,	American,	Carpenter,	47	S	Stanton No. 7,			Falling off scaffold. Outside.
		Richard Roberts,	American,	Laborer,	52	M	Dorrance,			Caught between car bumpers on gangway.
	30	Peter Movelovitch,	Polish,	Miner,	32	M	South Wilkes-Barre No. 5,			Struck by handle of jack hammer.
Dec.	17	John Serhan,	Syrian,	Company man,	26	S	South Wilkes-Barre No. 5,			Cars at top of breaker. Outside.
	18	Tony Chefski,	Lithuanian,	Laborer,	22	S	Stanton No. 7,			Fall of top coal at face of chamber.
	24	Steve Smittle,	Polish,	Slope runner,	30	S	Prospect,			Splinter running under nail, at foot of slope—Infection.
	27	William Krukoski,	Polish,	Company man,	50	M	Prospect,			Caught between car door and car.
	30	Aleck Porter,	Polish,	Miner,	47	W	Stanton No. 7,			Cut by piece of coal while loading car.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held May 4 and 5, in the Y. M. C. A. Building, Wilkes-Barre. The Board of Examiners was composed of Thomas J. Williams, Mine Inspector, Wilkes-Barre; Henry G. Davis, Superintendent, Wilkes-Barre; David L. John, Miner, Wilkes-Barre; John H. Harris, Miner, Wilkes-Barre, John D. Williams, Clerk, Wilkes-Barre.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

John Joseph Flanagan, David T. Jones, Richard E. Morgan, Robert J. Morris, John F. McCrystle, John J. Neinson, Peter Thomas Roberts, William Peters, David Rowlands, Wilkes-Barre; Howell T. Jenkins, Plymouth; John E. Willis, Jr., Plains.

ASSISTANT MINE FOREMEN

Morgan A. Davies, Rowland Hughes, Ronald Matthew Johnson, Elmer J. Joseph, Thomas W. Jones, John Kasnicki, Andrew Metzo, Thomas Y. Morgan, Mike Morgan, Orion Moses, John Schrader, Patrick Sheeran, Max J. Subsack, Daniel Thomas, Joseph H. Worth, Wilkes-Barre; John Knight, Plains.

1920

TWELFTH DISTRICT

Luzerne County

D. T. Davis, Inspector, Wilkes-Barre

SUMMARY OF STATISTICS

Collieries in operation (breakers),	8
Washeries in operation,	6
Mines in district,	16
Gaseous mines in operation,	12
Non-gaseous mines in operation,	4
Tons of coal shipped to market,	3,418,775
Tons used at mines for steam and heat,	349,460
Tons sold to local trade and used by employes,	141,918
Tons produced (gross),	3,910,153
Tons produced by electrical machines,	40
Persons employed inside,	4,927
Persons employed outside,	1,565
Persons employed inside between 16 and 21 years,	540
Persons employed outside between 14 and 21 years,	231
Fatal accidents inside,	14
Fatal accidents outside,	4
Serious non-fatal accidents inside,	36
Serious non-fatal accidents outside,	5
Tons produced per fatal accident inside,	279,297
Tons produced per fatal accident inside and outside,	217,231
Persons employed per fatal accident inside,	352
Persons employed per fatal accident outside,	391
Persons employed per fatal accident inside and outside,	361
Persons employed per non-fatal accident inside,	137
Persons employed per non-fatal accident outside,	313
Persons employed per non-fatal accident inside and outside,	158
Wives made widows,	12
Children made orphans,	30
Steam locomotives outside,	17
Compressed air locomotives inside,	8
Electric motors inside,	60
Electric motors outside,	2
Tubular boilers,	77
Steam engines of all classes,	426
Electric dynamos,	16
Pumps of all classes,	114
Pumps delivering water to surface,	22
Air compressors,	16
Fans in use,	35

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Hudson Coal Company,	1,432,608
Delaware, Lackawanna and Western Railroad Company,	1,066,937
Lehigh and Wilkes-Barre Coal Company,	806,375
Kingston Coal Company,	518,351
Inter-City Fuel Company, Inc.,	62,222
Plymouth Red Ash Coal Company,	13,880
Shawnee Coal Company,	9,780
Total,	3,910,153

Production by Counties

Luzerne,	3,910,153

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Hudson Coal Co.,	6	2	8	11	2	13	238,768	130,237	1,657	460	2,117	276	230	151	230
Delaware, Lackawanna and Western Railroad Co.	2	------	2	16	2	18	533,469	66,684	1,260	321	1,581	630	------	79	161
Lehigh and Wilkes-Barre Coal Co.,	4	1	5	7	------	7	201,594	115,196	1,121	376	1,497	280	376	160	------
Kingston Coal Co.,	2	------	2	2	1	3	259,176	259,176	859	348	1,207	430	------	430	348
Inter-City Fuel Co., Inc.,	------	1	1	------	------	------	------	------	------	45	45	------	45	------	------
Other Operators—No accidents,	------	------	------	------	------	------	------	------	30	15	45	------	------	------	------
Totals and averages,	14	4	18	36	5	41	279,297	108,615	4,927	1,565	6,492	352	391	137	313

TABLE J.—Operators and mines, name of coal bed, kind of openings, mining machines used, approximate number of tons produced by machines

Operators and mines	County	Geological and local name of coal bed	Average height of seam in inches	Kind of opening	Gaseous or non-gaseous	Mining machines		Tons produced by electric machines (approximate)	Tons produced by compressed air machines (approximate)
						Electric	Compressed air		
Shawnee Coal Co.	Luzerne,	Cooper,	96	Slope,	Non-gas.,	2		40	
Shawnee,		Five Foot,	66						
Hudson Coal Co. *									

*Not reported.

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Hudson Coal Co.						
Loree No. 5*	Luzerne,	R. H. Buchanan,	Scranton,	Jacob Britton,	Plymouth,	D. & H.
Loree No. 2 Washery,						
Loree No. 3 Washery,						
Loree No. 4 Washery,						
Loree No. 5 Washery,						
Boston Washery,						
Delaware, Lackawanna and Western Railroad Co.						
Woodward,	Luzerne,	S. D. Dimmick,	Scranton,	W. F. Powell,	Kingston,	D. L. & W.
Nanticoke Power Plant,						
Lehigh and Wilkes-Barre Coal Co.						
Lance No. 11,	Luzerne,	C. F. Huber,	Wilkes-Barre,	Douglas Bunting,	Wilkes-Barre,	C. R. R. of N. J.
Nottingham No. 15,						
Kingston Coal Co.						
Kingston No. 2,	Luzerne,	F. E. Zerbey,	Kingston,	Thomas H. Williams,	Kingston,	D. L. & W.; L. V.; D. & H.; Penna.; C. R. R. of N. J.
Gaylord,				Ralph A. Smith,	Plymouth,	D. L. W.; D. & H.; Penna.
Inter-City Fuel Co., Inc.‡						
Inter-City Washery,	Luzerne,	R. W. Coffield,	Plymouth,	Thomas Delehanty,	Plymouth,	C. R. R. of N. J.
Plymouth Red Ash Coal Co.						
Plymouth Red Ash,	Luzerne,	W. L. Schlager,	Scranton,			D. L. & W.
Shawnee Coal Co.						
Shawnee,	Luzerne,	Frank S. Lewis,	Plymouth,	Harry Perkins,	Plymouth,	Wagon haul

*Formerly Plymouth No. 5 Colliery.
‡ Formerly Plymouth Company.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Hudson Coal Co.												
Loree No. 5,	Luzerne,	1,226,722	45,818	46,614	1,319,154	294	2,117	8	13	888,700	76,034	
Washeries												
Loree No. 2,		25,215	581		25,796	X	‡					
Loree No. 3,			76,854		76,854	111	‡					
Loree No. 4,		319			319	X	‡					
Loree No. 5,		177			177	X	‡					
Boston,		10,308			10,308	X	‡					
		36,019	77,435		113,454							
Totals,		1,262,741	123,253	46,614	1,432,608		2,117	8	13	888,700	76,034	
Delaware, Lackawanna and Western Railroad Co.												
Woodward,	Luzerne,	972,784	83,607	10,546	1,066,937	290	1,552	2	18	556,775	48,351	222,345
Nanticoke Power Plant,					@	366	29					
Totals,		972,784	83,607	10,546	1,066,937		1,581	2	18	556,775	48,351	222,345

X No record kept.
‡ Employes included with Loree No. 5 Colliery.
@ Furnishes power for collieries.

Lehigh and Wilkes-Barre Coal Co.													
Lance No. 11,	Luzerne,	267,786	47,214	5,726	320,726	282	571	3	4	265,375	9,710	14,425
Nottingham No. 15,		390,694	58,585	36,370	485,649	283	926	2	3	186,350	13,755	1,025
Totals,		658,480	105,799	42,096	806,375	--------	1,497	5	7	451,725	23,465	15,450
Kingston Coal Co.													
Kingston No. 2,	Luzerne,	331,942	19,000	34,869	385,811	298	882	1	3	198,950	8,010	2,739
Gaylord,		110,943	17,500	4,097	132,540	296	325	1	--------	19,375	12,275	--------
Totals,	--------	442,885	36,500	38,966	518,351	--------	1,207	2	3	218,325	20,285	2,739
Inter-City Fuel Co., Inc.													
Inter-City Washery,	Luzerne,	62,000	200	22	62,222	263	45	1	--------	--------	--------	--------
Plymouth Red Ash Coal Co.													
Plymouth Red Ash,	Luzerne,	12,306	101	1,473	13,880	294	31	--------	--------	--------	1,050	1,900
Shawnee Coal Co.													
Shawnee,	Luzerne,	7,579	--------	2,201	9,780	208	14	--------	--------	10,225	450	--------
Grand totals,	--------	3,418,775	349,460	141,918	3,910,153	--------	6,492	18	41	2,125,750	169,635	242,434

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Hudson Coal Co.	Luzerne,	----	--------	30	7,740	245	23,564	----	--------	----	--------	47	38,635	11	3,350	314	----	8	----	----	8	8,925
Delaware, Lackawanna and Western Railroad Co.,		----	--------	11	2,805	31	5,452	----	--------	6	2,300	18	18,700	4	4,400	27	----	1	----	39	1	1,500
Lehigh and Wilkes-Barre Coal Co.,		----	--------	22	5,050	112	11,801	----	--------	1	50	40	19,510	6	6,157	233	----	1	8	----	5	12,580
Kingston Coal Co.,		----	--------	13	3,450	38	4,700	----	--------	2	192	9	3,425	1	1,000	92	----	7	----	20	2	2,950
Plymouth Red Ash Coal Co.,		----	--------	1	100	----	--------	----	--------	4	195	----	--------	----	--------	3	----	----	----	----	----	--------
Shawnee Coal Co.,		----	--------	----	--------	----	--------	----	--------	3	X	----	--------	----	--------	3	----	----	----	3	----	--------
Totals,		----	--------	77	19,145	426	45,517	----	--------	16	2,737	114	89,270	22	14,907	672	----	17	8	62	16	25,965

X Not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Hudson Coal Co.,	Luzerne,	4	25	12	611	294	6	2	------	------	277	45	22	16	12	2	57	272	1,657
Delaware, Lackawanna and Western Railroad Co.,		5	------	27	535	135	------	------	42	42	80	34	31	58	11	11	47	202	1,200
Lehigh and Wilkes-Barre Coal Co.		3	3	30	405	207	------	------	3	2	119	30	10	35	21	4	56	193	1,121
Kingston Coal Co.,		5	11	8	340	220	------	------	21	20	67	25	7	45	7	6	5	72	859
Inter-City Fuel Co., Inc.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Plymouth Red Ash Coal Co.,		1	1	------	6	6	------	------	------	------	4	1	------	------	------	------	------	------	19
Shawnee Coal Co.,		------	------	------	4	4	------	------	------	------	3	------	------	------	------	------	------	------	11
Totals,		18	40	77	1,901	866	6	2	66	64	550	135	70	154	51	23	165	739	4,927

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Hudson Coal Co.,	Luzerne,	2	4	15	14	137	8	-------	-------	11	10	259	460	2,117
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	1	1	4	18	32	5	-------	12	-------	7	241	321	1,581
Lehigh and Wilkes-Barre Coal Co.	Luzerne,	-------	2	5	11	59	1	-------	46	3	8	241	376	1,497
Kingston Coal Co.,	Luzerne,	2	3	9	42	35	12	7	2	26	4	206	348	1,207
Inter-City Fuel Co., Inc.,	Luzerne,	-------	1	1	1	1	1	1	3	-------	1	35	45	45
Plymouth Red Ash Coal Co.,	Luzerne,	1	1	-------	-------	2	-------	-------	2	-------	1	5	12	31
Shawnee Coal Co.,	Luzerne,	-------	-------	-------	-------	1	-------	-------	1	-------	-------	1	3	14
Totals,		6	12	34	86	267	27	8	66	40	31	988	1,565	6,492

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Hudson Coal Co.,	Luzerne,	26	23	25	23	24	26	26	25	24	25	22	25	294
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	26	24	27	15	24	26	26	24	25	25	22	26	290
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	26	20	27	17	23	25	25	25	24	24	22	25	283
Kingston Coal Co.,	Luzerne,	26	24	27	23	24	26	25	24	25	25	23	25	297
Plymouth Red Ash Coal Co.,	Luzerne,	25	24	26	23	25	25	26	25	26	22	22	25	294
Shawnee Coal Co.,	Luzerne,	25	22	24	22	23	21	21	24	23	3	--------	--------	208

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 6	Joseph Pluma,	Polish,	Miner's laborer,	67	M.	1	------	Lance No. 11,	Luzerne,	Fall of top rock at face of chamber.
28	Frank Stanll,	Polish,	Loader	38	M.	1	4	Loree No. 5,		Railroad cars. Outside
March 15	Edward Degnan,	American,	Ashman,	51	S.	------	------	Loree No. 5,		Scalded by steam from ashes. Outside.
April 26	Victor Dofger,	Lithuanian,	Miner's laborer,	46	M.	1	3	Nottingham No. 15,		Fall of top rock at face of chamber.
May 3	John Dombroskl,	Polish,	Laborer,	49	M.	1	6	Inter-City Washery,		Mine cars. Outside.
5	William Davis,	American,	Miner's laborer,	54	S.	------	------	Gaylord,		Fall of rock at face of chamber.
8	Joseph Miller,	American,	Laborer,	20	S.	------	------	Loree No. 5,		Falling down shaft.
28	Lewis Pastalla,	Polish,	Miner's laborer,	45	M.	1	------	Loree No. 5,		Fall of top coal at face of chamber.
June 15	Thomas O'Holleran,	Irish,	Miner,	50	M.	1	------	Lance No. 11,		Fall of rock at face of chamber.
29	David Williams,	Welsh,	Carpenter,	50	M.	1	1	Lance No. 11,		Struck by rope. Outside.
July 13	John Conshinsky,	Polish,	Miner,	60	M.	1	3	Kingston No. 2		Fall of top rock at face of chamber.
14	James Dougherty,	Irish,	Companyman,	58	M.	1		Woodward,		Fall of top rock on gangway.
15	Joseph Lloyd,	American,	Doorboy,	17	S.	------	----	Loree No. 5,		Cars on gangway.
Aug. 3	Edward Pezanoweki,	Polish,	Miner,	40	M.	1	----	Loree No. 5,		Fall of top rock at face of chamber.
Sept. 2	Peter Gut,	Polish,	Miner,	42	M.	1	8	Woodward,		Fall of top rock in abandoned chamber.
16	Bernard Fecney,	Irish,	Miner,	67	W.	------	------	Nottingham No 15,		Premature blast at face of chamber.
Oct. 2	William Dickson,	American,	Companyman,	50	M.	1	4	Loree No. 5,		Cars on plane.
5	James Dougherty,	American,	Runner,	21	S.	------	------	Loree No. 5,		Cars on gangway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 8	Ralph Odnis,	American,	Miner's laborer,	43	M	Woodward,		Fall of top rock.
16	Charles Flowers,	American,	Miner's laborer,	60	M	Loree No. 5,		Fall of top rock.
Feb. 2	Anthony Swicka,	Polish,	Miner,	50	M	Loree No. 5,		Flying piece of coal at face.
10	John Rosenoski,	Polish,	Miner,	46	M	Woodward,		Cars on gangway.
16	Thomas W. Blanford	English,	Blacksmith,	59	M	Kingston No. 2,		Caught between handles of tongs, Outside.
	John Lewis,	American,	Driver,	18	S	Woodward,		Struck by piece of coal from pillar.
March 4	George Fitser,	American,	Miner,	27	M	Loree No. 5,		Blast in chamber.
26	John Chezko,	Slavonian,	Miner,	29	M	Woodward,		Burned by explosion of gas at face.
	Jos. Strelizeyk,	Polish,	Miner,	54	M	Woodward,		Falling on gangway.
27	John J. Rowland,	American,	Miner's laborer,	29	S	Loree No. 5,		Fall of top coal at face.
April 8	John Yuskavich,	Lithuanian,	Laborer,	49	M	Woodward,		Caught under piece of timber. Outside.
9	Anthony Dombrosky,	Polish,	Miner,	34	S	Woodward,		Flying coal from blast in chamber.
26	Stephen Yearko,	Slavonian,	Miner,	45	M	Loree No. 5,		Fall of top coal at face.
May 14	Paul Chicallo,	Polish,	Miner,	46	M	Loree No. 5,		Derailed car at face.
21	Michael Holack,	Russian,	Footman,	29	M.	Loree No. 5,		Cars on gangway.
24	Matthew Diskoski,	American,	Driver,	18	S.	Woodward,		Cars on gangway.
June 12	Thomas Herbert,	Welsh,	Timberman,	55	M.	Woodward,		Blast on slope.
14	Dominick Wilkofski,	Lithuanian,	Miner,	47	M.	Woodward,		Fall of rock at face.
15	John Simmer,	Polish,	Miner's laborer,	34	S.	Woodward,		Pushing car at face.
July 9	Joe Urbinovitch,	Polish,	Miner's laborer,	43	M.	Nottingham No. 15,	Luzerne,	Squeezed between cars and side of slope.
	Michael Victor,	Lithuanian,	Laborer,	36	M.	Woodward,		Fall of top rock at face.
15	Mike Wargo,	Slavonian,	Miner,	47	M.	Kingston No. 2,		Rush of rock and coal at face.
17	Ignatz Prorozeyk,	Polish,	Miner,	37	S.	Woodward,		Piece of coal bursting from rib at face.
28	Julius Morovinski,	Polish,	Miner,	45	M.	Loree No. 5,		Fall of rock at face.
31	Julius Steroski,	Polish,	Miner,	50	M.	Nottingham No. 15,		Pushing loaded car in chamber—strained.
	Thomas Wilson,	American,	Laborer,	48	M.	Loree No. 5,		Car falling. Outside.
Aug. 5	John Demyon,	Slavonian,	Runner,	21	S.	Woodward,		Derailed car on airway.
7	Mike Ocevak,	Russian,	Miner,	56	M.	Nottingham No. 15,		Flying piece of coal in chamber—breaking coal.
14	Ignatz Krezanoski,	Lithuanian	Miner,	45	M.	Lance No. 11,		Lifting car in chamber.
20	Simon Gaines,	Lithuanian,	Miner,	34	M.	Lance No. 11,		Fall of rock in tunnel.
25	Peter Chrisolavitch,	Lithuanian,	Miner's laborer,	49	S.	Lance No. 11,		Fall of rock in tunnel.
26	Frank Marks,	Polish,	Bratticeman,	59	M.	Loree No. 5,		Flying piece of steel that broke off hatchet.
28	William Compton,	American,	Miner,	26	M.	Loree No. 5,		Fall of rock on gangway.
Sept. 23	Jno. Machinko,	Slavonian,	Miner,	37	M.	Woodward,		Fall of coal from rib at face.
28	Anthony Lepkowskie,	Polish,	Miner,	51	M.	Lance No. 11,		Falling in chamber.
30	Joe Yanasheski,	Polish,	Laborer,	45	S.	Kingston No. 2,		Fall of rock at face.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Nov. 6	John X. Jones,	Welsh.	Companyman,	69	M	Woodward,	Luzerne.	Chip of rock flying from pick in airway.
9	Daniel Litts,	American,	Carpenter,	35	M	Woodward,		Circular saw in carpenter shop. Outside.
17	Harry Loffkofsky,	Polish,	Miner,	48	M	Loree No. 5,		Fall of top slate in chamber.
22	Geo. W. May,	American,	Laborer,	30	M	Loree No. 5,		Lifting ladder—ruptured. Outside.
Dec. 16	Paul Wallock,	Russian,	Miner,	51	M	Woodward,		Fall of coal from rib.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Plymouth, May 4 and 5. The Board of Examiners was composed of David T. Davis, Inspector, Wilkes-Barre; Thomas H. Williams, Superintendent, Edwardville, John J. Boney, Miner, Plymouth; William H. Chappell, Miner, Plymouth.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

John Baluh, John J. Boney, William F. Burke, James O'Rourke, Harry F. Pifer, Frank J. Powlitch, Plymouth; Richard Roberts, William T. Davies, William J. Lewis, Edwardsville; Frank J. Kulkowski, William W. Badman, Larksville.

ASSISTANT MINE FOREMEN

Benjamin F. Badman, David J. Bird, Francis S. Davis, Martin Finley, Joseph Gurdock, Arthur Jakes, John H. Lewis, Peter McTague, William R. Owens, Howell Pugh, Frank G. Prohasky, Robert G. Prohaska, Lewis D. Rowlands, Harry Shellhamer, Plymouth; Thomas Adamson, John Doporcher, Arthur Hitchcock, John Krankota, Anthony Shymanski, David R. Thomas, George S. Thomas, John Van Buskirk, John Zayerack, Stanley Zezula, Larksville; Thomas Jones, Albert Pearson, Westmoor; John Brokenshire, David T. Edwards, Thomas Gregory, Edward Richards, Kingston; Isaac M. Dando, Thomas Ford, William F. Keating, William Martin, Edwardsville; James Andrews, Wilkes-Barre; Richard H. Jones, Parsons.

1920

THIRTEENTH DISTRICT

LUZERNE COUNTY

Frank Kettle, Inspector, Nanticoke

SUMMARY OF STATISTICS

Collieries in operation (breakers),	10
Washeries in operation,	2
Mines in district,	27
Gaseous mines in operation,	22
Non-gaseous mines in operation,	5
Tons of coal shipped to market,	3,768,966
Tons used at mines for steam and heat,	390,367
Tons sold to local trade and used by employes,	54,336
Tons produced (gross),	4,213,669
Persons employed inside,	5,219
Persons employed outside,	1,535
Persons employed inside between 16 and 21 years,	445
Persons employed outside between 14 and 21 years,	227
Fatal accidents inside,	17
Fatal accidents outside,	3
Serious non-fatal accidents inside,	30
Serious non-fatal accidents outside,	4
Tons produced per fatal accident inside,	247,863
Tons produced per fatal accident inside and outside,	210,683
Persons employed per fatal accident inside,	307
Persons employed per fatal accident outside,	512
Persons employed per fatal accident inside and outside,	338
Persons employed per non-fatal accident inside,	174
Persons employed per non-fatal accident outside,	384
Persons employed per non-fatal accident inside and outside,	199
Wives made widows,	10
Children made orphans,	39
Steam locomotives outside,	15
Compressed air locomotives inside,	3
Electric motors inside,	107
Electric motors outside,	6
Gasoline locomotives outside,	1
Cylindrical boilers,	10
Tubular boilers,	70
Steam engines of all classes,	203
Electric dynamos,	4
Pumps of all classes,	121
Pumps delivering water to surface,	35
Air compressors,	10
Fans in use,	28

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Delaware, Lackawanna and Western Railroad Company,	2,351,291
Lehigh and Wilkes-Barre Coal Company,	1,005,685
Lehigh Valley Coal Company,	469,543
Pittston Coal Mining Company,	145,267
West Nanticoke Coal Company,	122,600
George F. Lee Coal Company,	114,483
Black Creek Coal Company,	4,800
Total,	4,213,669

Production by Counties

Luzerne,	4,213,669

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident in ide	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Delaware, Lackawanna and Western Railroad Co.	6	1	7	14	1	15	391,882	167,949	2,591	642	3,233	432	642	185	642
Lehigh and Wilkes-Barre Coal Co.,	6	1	7	14	------	14	167,614	71,835	1,494	486	1,980	249	486	107	------
Lehigh Valley Coal Co.,	5	------	5	2	2	4	93,909	234,772	555	184	739	111	------	278	92
Pittston Coal Mining Co.,	------	1	1	------	1	1	------	------	190	90	280	------	90	------	90
Other Operators—no accidents,	------	------	------	------	------	------	------	------	389	133	522	------	------	------	------
Totals and averages,	17	3	20	30	4	34	247,863	140,456	5,219	1,535	6.754	307	512	174	384

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post Office	Superintendent	Post Office	Railroad to mine
Delaware, Lackawanna and Western Railroad Co. Truesdale, Loomis, Avondale, Avondale Washery,	Luzerne,	S. D. Dimmick,	Scranton,	P. H. Dever, Wayne Caruthers, Wayne Caruthers, Wayne Caruthers,	Nanticoke, Nanticoke, Nanticoke, Nanticoke,	D., L. & W.
Lehigh and Wilkes-Barre Coal Co. Sugar Notch No. 9, Maxwell No. 20, Buttonwood No. 22,	Luzerne,	C. F. Huber,	Wilkes-Barre,	Douglas Bunting,	Wilkes-Barre,	C. RR. of N. J.
Lehigh Valley Coal Co. Franklin, Warrior Run,	Luzerne,	Thomas Thomas,	Wilkes-Barre,	P. S. Warriner,	Wilkes-Barre,	Lehigh Valley.
Pittston Coal Mining Co. Hadleigh,	Luzerne,	C. M. O'Boyle,	Pittston,	F. E. Ward,	Sugar Notch,	C. RR. of N. J.
West Nanticoke Coal Co. West Nanticoke,	Luzerne,	A. D. W. Smith,	Philadelphia,	E. W. Davis,	Kingston,	Pennsylvania.
George F. Lee Coal Co. Chauncey,	Luzerne,	George F. Lee,	Wilkes-Barre,			D. L. & W.
Black Creek Coal Co. Black Creek Washery,	Luzerne,			B. S. Bascome,	Nanticoke,	Pennsylvania.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Delaware, Lackawanna and Western Railroad Co.												
Truesdale,	Luzerne,	1,219,617	103,908	7,074	1,330,599	289	1,848	4	8	410,725	86,761	474,425
Loomis,	Luzerne,	641,752	42,214	4,552	688,518	290	888	3	4	----------	10,531	437,900
Avondale,	Luzerne,	153,525	26,470	3,992	183,987	290	494	--------	3	40,300	13,380	31,460
		2,014,894	172,592	15,618	2,203,104	--------	3,230	7	15	451,025	110,672	943,785
Avondale Washery,		117,269	30,918	----------	148,187	*	38§	--------	--------	----------	----------	----------
Totals,		2,132,163	203,510	15,618	2,351,291	--------	3,233	7	15	451,025	110,672	943,785
Lehigh and Wilkes-Barre Coal Co.												
Sugar Notch No. 9,	Luzerne,	345,915	23,032	5,806	374,753	280	708	2	2	10,050	20,283	180,493
Maxwell No. 20,	Luzerne,	392,691	36,539	17,274	446,504	280	820	3	6	78,425	9,445	180,725
Buttonwood No. 22,	Luzerne,	143,529	38,176	2,723	184,428	281	452	2	6	3,350	5,655	109,425
Totals,		882,135	97,747	25,803	1,005,685	--------	1,980	7	14	91,825	35,383	470,643
Lehigh Valley Coal Co.												
Franklin,	Luzerne,	319,837	47,151	6,732	373,720	261	621	4	3	50,725	163,555	----------
Warrior Run,†	Luzerne,	66,953	25,502	3,368	95,823	†	118	1	1	350	20,800	----------
Totals,		386,790	72,653	10,100	469,543	--------	739	5	4	51,075	184,355	----------
Pittston Coal Mining Co.												
Hadleigh,	Luzerne,	128,568	15,745	954	145,267	281	280	1	1	----------	40,000	2,000
West Nanticoke Coal Co.												
West Nanticoke,	Luzerne,	121,888	712	----------	122,600	224	205	--------	--------	7,875	6,365	995

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
George F. Lee Coal Co. Chauncey,	Luzerne,	112,622	----------	1,861	114,483	280	307	--------	--------	10,950	15,837	----------
Black Creek Coal Co. Black Creek Washery,	Luzerne,	4,800	----------	----------	4,800	176	10	--------	--------	----------	----------	----------
Grand totals,		3,768.966	390,367	54,336	4,213,669	--------	6.754	20	34	612,750	392.612	1,417,423

§Included with colliery.
*Not reported.
‡Coal prepared at Prospect breaker, 11th District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Delaware, Lachawanna and Western Railroad Co.	Luzerne,	10	1,625	10	3,018	28	12,038	----	--------	----	--------	62	25,050	19	10,150	42	----	6	----	101	3	4,500
Lehigh and Wilkes-Barre Coal Co.		----	--------	36	6,918	126	18,317	----	--------	1	300	34	17,735	11	8,045	232	----	2	3	5	6	11,001
Lehigh Valley Coal Co.,		----	--------	21	3,300	40	3,200	----	--------	1	25	14	9,300	2	3,600	141	----	3	----	1	----	--------
Pittston Coal Mining Co.,		----	--------	2	550	9	614	----	--------	2	400	5	2,700	1	500	14	----	2	----	4	1	200
West Nanticoke Coal Co.,		----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	25	1	2	----	----	----	--------
George F. Lee Coal Co.,		----	--------	1	125	----	--------	----	--------	----	--------	3	2,000	2	1,500	20	----	----	----	2	----	--------
Black Creek Coal Co.,		----	--------	----	--------	----	--------	----	--------	----	--------	3	2,500	----	--------	----	----	----	----	----	----	--------
Totals,		10	1,625	70	13,911	203	34,169	----	--------	4	725	121	59,285	35	23,795	474	1	15	3	113	10	15,701

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Delaware, Lackawanna and Western Railroad Co.	Luzerne.	9	49	3	1,124	437	2	2	128	55	54	57	48	75	37	22	56	433	2,591
Lehigh and Wilkes-Barre Coal Co.	Luzerne.	3	4	32	566	259	------	------	5	4	99	30	24	24	23	1	88	332	1,494
Lehigh Valley Coal Co.,	Luzerne.	2	19	------	245	37	------	------	1	1	99	17	8	25	12	1	16	72	555
Pittston Coal Mining Co.,	Luzerne.	1	2	2	90	50	------	------	5	5	20	7	------	------	4	3	1	------	190
West Nanticoke Coal Co.,	Luzerne.	1	2	------	48	52	------	------	------	------	15	4	------	12	------	------	------	------	134
George F. Lee Coal Co.,	Luzerne.	1	2	1	82	71	------	------	2	2	24	6	5	35	2	2	------	20	255
Black Creek Coal Co.,	Luzerne.	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals,	------	17	78	38	2,155	906	2	2	141	67	311	121	85	171	78	29	161	857	5,219

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Delaware, Lackawanna and Western Railroad Co.	Luzerne,	2	4	14	137	37	11	15	80	----------	14	328	642	3,233
Lehigh and Wilkes-Barre Coal Co.	Luzerne,	--------	3	6	13	81	3	3	75	5	10	287	486	1,980
Lehigh Valley Coal Co.,	Luzerne,	--------	2	5	14	43	2	2	6	11	4	95	184	739
Pittston Coal Mining Co.,	Luzerne,	1	1	1	6	13	1	3	4	12	2	46	90	280
West Nanticoke Coal Co.,	Luzerne,	--------	--------	2	7	9	3	1	5	1	3	40	71	205
George F. Lee Coal Co.,	Luzerne,	--------	1	2	10	3	2	--------	2	--------	1	31	52	307
Black Creek Coal Co.,	Luzerne,	1	1	--------	--------	--------	--------	--------	--------	--------	--------	8	10	10
Totals,	----------	4	12	30	187	186	22	24	172	29	34	835	1,535	6,754

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Delaware, Lackawanna and Western Railroad Co.	Luzerne,	26	24	27	15	23	26	26	26	25	25	22	25	290
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	25	21	27	17	22	26	24	25	22	24	22	25	280
Lehigh Valley Coal Co.,	Luzerne,	24	20	23	19	20	23	21	24	19	22	22	24	261
Pittston Coal Mining Co.,	Luzerne,	22	23	25	19	23	26	26	26	23	25	23	20	281
West Nanticoke Coal Co.,	Luzerne,	20	17	19	18	19	19	19	19	19	19	17	19	224
George F. Lee Coal Co.,	Luzerne,	26	24	26	17	24	24	25	25	24	23	21	21	280

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 10	Morris Llewllyn,	Welsh,	Miner,	58	W			Sugar Notch No. 9.		Fall of rock in old chamber.
20	Benjamin Barkson,	American,	Engineer,	23	S			Buttonwood No. 22.		Fall of rock at face of chamber.
29	Michael Osofski,	Polish,	Miner's laborer,	35	M	1	3	Maxwell No. 20.		Fall of bone at face of gangway.
Feb. 4	John Goscough,	Austrian,	Miner,	29	M	1	3	Truesdale,		Premature blast at face of chamber.
11	Frank Telaski,	Polish,	Miner,	35	M	1	2	Franklin,		Blast at face of chute.
28	Frank Lemavage,	Polish,	Miner's laborer,	36	S			Loomis,		Blast at face of gangway.
Mar. 4	Thomas Triggar,	Polish,	Miner,	42	M	1	3	Truesdale,		Fall of rock on pillar work.
April 6	John Chopeck,	American,	Oiler,	18	S			Maxwell No. 20.		Machinery in breaker. Outside.
May 7	Adam Haverlack,	Russian,	Miner's laborer,	52	W		4	Warrior Run,		Burned by explosion of gas in chute.
June 19	John Shudleski,	Polish,	Miner,	35	M	1	4	Sugar Notch No. 9.	Luzerne,	Burned by explosion of gas in old chamber.
July 1	Peter Sabas,	Lithuanian,	Laborer,	38	M	1	8	Hadleigh,		Suffocated by gas on dump. Outside.
8	Alex Melefski,	Polish,	Miner's laborer,	57	M	1		Franklin,		Fall of rock on pillar work.
16	Joe Mika,	Polish,	Miner,	35	M	1	5	Maxwell No. 20.		Fall of coal at face of chamber.
Sept. 9	Michael Shidlo,	American,	Slatepicker,	17	S			Truesdale,		Machinery in breaker. Outside.
Oct. 9	Joe Boltz,	Polish,	Miner's laborer,	40	S			Franklin,		Burned by explosion of gas in old chamber.
16	Walter Koschi,	Polish,	Doorboy,	17	S			Loomis,		Motor on gangway.
20	Aleck Surles,	American,	Miner's laborer,	41	M	1	3	Buttonwood No. 22.		Fall of top coal at face of airway.
Nov. 6	Fritz Strey,	German,	Miner,	51	W			Loomis,		Fall of coal at face of chamber.
15	Charles Bartleson,	American,	Bratticeman,	24	S			Truesdale,		Burned by explosion of gas in old chamber.
Dec. 4	John Zolobonich,	Austrian,	Miner,	29	M	1	4	Franklin,		Cars on gangway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 5	Joseph Weiss,	Polish.	Miner,	38	M	Franklin,		Fall of roof at face of gangway.
10	Joseph Sunanski,	Polish.	Miner's laborer,	46	M	Sugar Notch No. 9,		Falling down chamber.
Mar 3	Frank Ruscavage,	Austrian,	Miner,	52	M	Buttonwood No. 22,		Burned by gas in chamber.
9	William Kibler,	American.	Carpenter,	48	M	Franklin,		Falling over pipe. Outside.
10	Adam Yankowski,	Polish,	Miner's laborer,	42	M	Truesdale,		Coal rolling down chute.
17	Lesco Barno,	Russian,	Pulleyman,	45	M	Truesdale,		Squeezed between car and roof.
27	Al Monk,	English,	Miner's laborer,	56	M	Buttonwood No. 22,		Fall of roof in chamber.
April 6	John Balavage,	Polish,	Miner,	38	M	Truesdale,		Fall of rock at face of counter gangway.
8	Steve Camnick,	Polish,	Laborer,	56	M	Franklin,		Falling over rail. Outside.
May 3	Michael Cavanaugh, Sr.	American,	Miner's laborer,	47	M	Maxwell No. 20,		Piece of coal falling from car.
4	Frank Kardofski,	Polish,	Miner,	57	M	Buttonwood No. 22,		Falling.
6	Stanley Knezeninski,	Polish,	Miner,	40	M	Truesdale,		Fall of rock from side.
7	Michael Kesweski,	Russian,	Miner,	28	M	Warrior Run,		Burned by gas in chamber.
24	John Nealon,	American.	Driver boss,	46	S	Sugar Notch No. 9,		Cars on slope.
June 2	John McGinley,	American,	Patcher,	17	S	Buttonwood No. 22,		Cars.
7	William Rugski,	Polish,	Miner,	57	M	Buttonwood No. 22,	Luzerne,	Fall of roof.
12	John Matcharowski,	Polish,	Miner,	38	M	Maxwell No. 20,		Blast in chamber.
28	John Driscoll,	American,	Assistant mine foreman.	30	M	Truesdale,		Cars on slope.
29	Stanley Malina,	Polish,	Miner,	52	M	Maxwell No. 20,		Burned by gas in chamber.
July 8	Mathew Chapsta,	Polish,	Miner,	35	M	Truesdale,		Fall of coal in chamber.
10	Sylvester Dual,	Polish,	Miner,	45	M	Avondale,		Burned by gas in chamber.
15	William Beatty,	American,	Footman,	29	S	Maxwell No. 20,		Fall of roof.
23	Joseph Shella,	American,	Prop cutter,	25	S	Avondale,		Blast. Outside.
Aug. 4	Frank Boochantis,	Lithuanian,	Miner,	47	M	Truesdale,		Flying piece of coal.
25	Joseph Smolski,	Lithuanian,	Miner's laborer,	35	S	Truesdale,		Struck by tail rope.
	Joseph Godek,	American.	Doorboy,	18	S	Loomis,		Cars.
Sept. 21	Walter Yankowski,	Polish,	Miner,	38	M	Maxwell No. 20,		Blast.
Oct. 4	Jacob Turrave,	Polish,	Miner,	36	M	Buttonwood No. 22,		Cars on gangway.
8	Reese Johns,	American,	Timberman,	32	M	Loomis,		Cars on gangway.
14	Patrick Ginley,	American,	Runner,	33	M	Maxwell No. 20,		Cars on gangway.
	Robert Raski,	German,	Miner's laborer,	45	M	Loomis,		Fall of rock.
Dec. 6	Andrew Sharek,	Polish,	Miner,	46	M	Avondale,		Timber in chamber.
20	John Walsh,	American,	Laborer,	18	S	Hadleigh,		Machinery in breaker. Outside.
30	John Rug,	American,	Motorman,	18	S	Loomis,		Cars at foot of shaft.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Wilkes-Barre, May 4 and 5. The Board of Examiners was composed of Frank Kettle, Inspector; John H. Haertter, Superintendent, Dorranceton; George Raub, Miner, Plymouth; Patrick McGraine, Miner, Sugar Notch.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Peter F. Gorham, Ashley; Cyril W. J. Hammonds, Warrior Run Gustave Kasch, William Dana Parke, Nanticoke; Richard Prichard, Sugar Notch; Martin Stamer, Concrete City.

ASSISTANT MINE FOREMEN

George Buckman, William D. Poole, Richard Price, Rowland Jones, Wilkes-Barre; Moses Jones, James J. Lenahan, Robert Gaines, Sugar Notch; Frank Toback, Edward R. Williams, Nanticoke; Eugene Flynn, New Town; Sylvester Kerlavage, Plymouth; Harry Miller, Askam; Anthony J. Reap, Pittston.

1920

FOURTEENTH DISTRICT

LUZERNE COUNTY

Joseph J. Walsh, Inspector, Nanticoke

SUMMARY OF STATISTICS

Collieries in operation (breakers),	9
Washeries in operation,	2
Mines in district,	48
Gaseous mines in operation,	28
Non-gaseous mines in operation,	20
Tons of coal shipped to market,	3,821,444
Tons used at mines for steam and heat,	365,939
Tons sold to local trade and used by employes,	70,881
Tons produced (gross),	4,258,264
Persons employed inside,	5,347
Persons employed outside,	2,082
Persons employed inside between 16 and 21 years,	499
Persons employed outside between 14 and 21 years,	280
Fatal accidents inside,	25
Fatal accidents outside,	5
Serious non-fatal accidents inside,	34
Serious non-fatal accidents outside,	3
Tons produced per fatal accident inside,	170,330
Tons produced per fatal accident inside and outside,	141,942
Persons employed per fatal accident inside,	214
Persons employed per fatal accident outside,	416
Persons employed per fatal accident inside and outside,	248
Persons employed per non-fatal accident inside,	157
Persons employed per non-fatal accident outside,	694
Persons employed per non-fatal accident inside and outside,	201
Wives made widows,	17
Children made orphans,	37
Steam locomotives outside,	37
Compressed air locomotives inside,	8
Electric motors inside,	103
Electric motors outside,	2

Gasoline locomotives inside,	1
Tubular boilers,	75
Steam engines of all classes,	120
Electric dynamos,	8
Pumps of all classes,	138
Pumps delivering water to surface,	33
Air compressors,	30
Fans in use,	36
New mines opened,	10
Old mines abandoned,	3

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Susquehanna Collieries Company,	1,644,545
Delaware, Lackawanna and Western Railroad Company,	864,907
Lehigh and Wilkes-Barre Coal Company,	682,624
West End Coal Company,	542,039
Alden Coal Company,	403,275
E. S. Stackhouse Coal Company,	75,349
East Alden Mining Company,	45,525
Total,	4,258,264

Production by Counties

Luzerne,	4,258,264

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Susquehanna Collieries Co.,	11	3	14	9	2	11	149,504	182,727	2,262	995	3,257	206	332	251	497
Delaware, Lackawanna and Western Railroad Co.	5	1	6	12	------	12	172,981	72,076	1,026	211	1,237	205	211	86	----------
Lehigh and Wilkes-Barre Coal Co.,	2	1	3	4	1	5	341,312	170,656	674	316	990	337	316	169	316
West End Coal Co.,	3	------	3	3	------	3	180,680	180,680	684	285	969	228	----------	228	----------
Alden Coal Co.,	3	------	3	6	------	6	134,425	67,213	524	202	726	175	----------	87	----------
East Alden Mining Co.,	1	------	1	------	------	------	45,525	----------	58	23	81	58	----------	----------	----------
E. S. Stackhouse Coal Co.,	------	------	------	------	------	------	----------	----------	119	50	169	----------	----------	----------	----------
Totals and averages,	25	5	30	34	3	37	170,330	125,243	5,347	2,082	7,429	214	416	157	694

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Susquehanna Collieries Co. Number 5, Number 6, Number 7, Nanticoke Washery,	Luzerne,	Robert A. Quin,	Wilkes-Barre,	F. H. Kohlbraker,	Nanticoke,	Pennsylvania.
Delaware, Lackawanna and Western Railroad Co. Bliss, Auchincloss,	Luzerne,	S. D. Dimnick,	Scranton,	H. N. Smith, Wayne Caruthers,	Nanticoke, Nanticoke,	D., L. & W.
Lehigh and Wilkes-Barre Coal Co. Wanamie No. 18, Wanamie Washery,	Luzerne,	C. F. Huber,	Wilkes-Barre,	Douglass Bunting,	Wilkes-Barre,	C. R. R. of N. J.
West End Coal Co. West End,	Luzerne,	F. G. Wilcox,	Scranton,	J. E. Hughes,	Mocanaqua,	Penna., C. R. R. of N. J.
Alden Coal Co. Alden,	Luzerne,	K. M. Smith,	Alden Station,	K. M. Smith,	Alden Station,	C. R. R. of N. J.
E. S. Stackhouse Coal Co., Salem,	Luzerne,	W. S. Ritter,	Shickshinny,	W. G. Watkins,	Shickshinny,	D., L. & W.
East Alden Mining Co. East Alden,	Luzerne,			A. F. Connell,	Wilkes-Barre,	Lehigh Valley.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Susquehanna Collieries Co.												
Number 5,	Luzerne,	439,658	19,212	13,950	472,820	294	1,232	4	2	213,650	32,600	67,150
Number 6,	Luzerne,	449,614	45,828	5,997	501,439	289	948	4	4	100,450	181,351	----------
Number 7,	Luzerne,	371,553	30,912	14,523	416,988	295	983	6	5	209,600	24,956	75,150
	Luzerne,	1,260,825	95,952	34,470	1,391,247	--------	3,163	14	11	523,700	238,907	142,300
Nanticoke Washery,	Luzerne,	149,823	103,475	----------	253,298	294	94	--------	--------	----------	----------	----------
Totals,		1,410,648	199,427	34,470	1,644,545	--------	3,257	14	11	523,700	238,907	142,300
Delaware, Lackawanna and Western Railroad Co.												
Bliss,	Luzerne,	549,935	44,197	5,010	599,142	288	848	6	10	104,625	38,625	209,675
Auchincloss,†	Luzerne,	241,960	22,089	1,716	265,765	292†	389	--------	2	----------	3,935	142,375
Totals,		791,895	66,286	6,726	864,907	--------	1,237	6	12	104,625	42,550	352,050
Lehigh and Wilkes-Barre Coal Co.												
Wanamie Number 18,	Luzerne,	463,414	45,553	6,222	515,189	284	903	2	5	38,725	45,295	177,500
Wanamie Washery,	Luzerne,	166,415	----------	1,020	167,435	310	87	1	--------	----------	----------	----------
Totals,		629,829	45,553	7,242	682,624	--------	990	3	5	38,725	45,295	177,500
West End Coal Co.												
West End,	Luzerne,	520,127	14,586	7,326	542,039	294	969	3	3	575	56,676	151,456
Alden Coal Co.												
Alden,	Luzerne,	351,624	38,992	12,659	403,275	250	726	3	6	117,500	----------	61,702

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
E. S. Stackhouse Coal Co. Salem,	Luzerne,	71,946	945	2,458	75,349	276	169	--------	--------	30,075	10,995	17,855
East Alden Mining Co. East Alden,	Luzerne,	45,375	150	--------	45,525	245	81	1	--------	400	800	21,400
Grand totals,	--------	3,821,444	365,939	70,881	4,258,264	--------	7,429	30	37	815,600	395,223	924,257

†Coal prepared at Loomis breaker, 13th District.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines								Pumps delivering water to the surface			Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)												
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Susquehanna Collieries Co.	Luzerne,	----	----	33	8,400	60	9,100	----	----	2	6,000	59	17,850	7	5,800	176	----	19	8	38	12	11,200
Delaware, Lackawanna and Western Railroad Co.		----	----	7	3,500	15	5,435	----	----	3	800	17	8,500	3	1,400	53	----	2	----	28	3	3,400
Lehigh and Wilkes-Barre Coal Co.,		----	----	13	2,772	40	5,338	----	----	2	400	9	5,318	3	1,562	79	----	4	----	8	2	2,450
West End Coal Co.,		----	----	9	2,900	----	----	----	----	----	----	34	12,540	14	6,620	20	----	9	----	23	8	1,280
Alden Coal Co.,		----	----	11	2,262	5	1,100	----	----	----	----	12	1,800	3	1,000	63	1	3	----	3	4	4,189
E. S. Stackhouse Coal Co.		----	----	1	150	----	----	----	----	1	225	2	400	2	400	2	----	----	----	5	----	----
East Alden Mining Co.,		----	----	1	150	----	----	----	----	----	----	5	150	1	100	----	----	----	----	----	1	120
Totals,		----	----	75	20,134	120	20,973	----	----	8	7,425	138	46,558	33	16,882	393	1	37	8	105	30	22,639

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Susquehanna Collieries Co.,	Luzerne,	7	13	41	882	522	------	------	43	53	169	58	30	198	19	1	37	189	2,262
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	3	17	11	439	207	------	------	25	24	48	24	18	42	10	6	10	142	1,026
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	2	15	------	283	108	------	------	12	22	45	12	10	3	5	1	7	149	674
West End Coal Co.,	Luzerne,	6	7	2	288	165	------	------	30	30	14	23	3	4	13	11	------	88	684
Alden Coal Co.,	Luzerne,	1	2	5	202	89	------	------	4	4	111	6	9	7	9	------	21	54	524
E. S. Stackhouse Coal Co.,	Luzerne,	1	------	------	57	40	------	------	6	6	------	3	------	------	------	2	------	4	119
East Alden Mining Co.,	Luzerne,	1	------	1	18	23	------	------	------	------	9	------	1	2	2	1	------	------	58
Totals,		21	54	60	2,169	1,154	------	------	120	139	369	126	71	256	58	22	75	626	5,347

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Susquehanna Collieries Co.,	Luzerne,	2	5	25	49	108	54	21	64	7	31	629	995	3,257
Delaware, Lackawanna and Western Railroad Co.,	Luzerne,	1	2	4	28	15	3	3	18	11	5	121	211	1,237
Lehigh and Wilkes-Barre Coal Co.,	Luzerne,	-------	2	2	7	35	1	6	34	7	5	217	316	999
West End Coal Co.,	Luzerne,	2	2	10	24	27	20	16	26	2	4	152	285	969
Alden Coal Co.,	Luzerne,	1	1	3	11	32	5	-------	35	28	11	75	202	726
E. S. Stackhouse Coal Co.,	Luzerne,	1	2	3	2	2	-------	2	8	2	2	26	50	169
East Alden Mining Co.,	Luzerne,	1	1	1	2	10	-------	-------	2	-------	3	3	23	81
Totals,	-------	8	15	48	123	229	83	48	187	57	61	1,223	2,082	7,429

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Susquehanna Collieries Co.,	Luzerne,	25	23	25	24	23	26	26	26	23	25	22	25	293
Delaware, Lackawanna and Western Railroad Co.,		26	24	27	16	24	26	26	24	25	25	22	25	290
Lehigh and Wilkes-Barre Coal Co.,		26	21	27	17	23	26	26	25	21	24	23	25	284
West End Coal Co.,		25	23	26	24	23	24	26	26	24	25	23	25	294
Alden Coal Co.,		24	22	25	14	20	22	21	21	20	20	19	22	250
E. S. Stackhouse Coal Co.,		24	22	24	14	22	23	25	26	25	25	21	25	276
East Alden Mining Co.,		19	11	21	21	21	25	24	22	21	22	22	16	245

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 12	Joseph Thomas,	English,	Mason,	56	S.			Number 5,		Derailed cars on slope-riding.
Feb. 3	John Grabash,	Polish,	Miner,	45	M.	1	1	Alden,		Fall of coal while removing pillars.
March 8	William A. Morgan,	Welsh,	Miner,	36	M.	1	2	Number 7,		Fall of roof 40 feet from face of chamber—preparing to stand prop.
	George Ojeviez,	Polish,	Miner,	58	M.	1		Number 6,		Squeezed between mine cars. Outside.
9	Alex Jaguginski,	Polish,	Miner,	28	M.	1	2	West End,		Crushed at battery by rush of coal.
16	Edward Kotz,	Polish,	Miner,	36	M.	1	3	Number 7,		Premature blast at face of working place.
22	Joseph Yableeki,	American,	Runner,	20	S.			Bliss,		Crushed between cars on gangway.
23	John Kishel,	Lithuanian,	Miner,	32	M.	1	3	Bliss,		Fall of coal at face of chamber.
April 29	Wadis Swikoski,	Polish,	Miner,	27	M.	1	3	Number 6,		Premature blast at face of gangway.
May 14	Wadis Godukofski,	American,	Motortender,	19	S.			Number 5,		Drawn into a scraper line. Outside.
June 2	Stanley Gerashin,	Polish,	Miner,	33	M.	1		Number 7,		Burned by explosion of gas at face of chamber.
10	Felix Vosotski,	Polish,	Miner,	50	M.	1	6	Bliss,		Fall of roof at face of chamber.
14	Michael Kutsik,	Russian,	Miner,	48	M.	1	5	Number 5,		Fall of roof at pillar work.
July 15	Joseph Gill,	Polish,	Miner,	25	S.			Number 7,		Fall of coal at pillar work.
16	Peter Gurash,	Polish,	Miner,	34	M.	1	4	West End,		Fall of roof at face of chamber.
Aug. 6	Edward Komorofski,	American,	Motorman,	19	S.			Bliss,	Luzerne,	Electricity on gangway—pole jumped off wire and pulled wire down.
23	John Rodda,	American,	Laborer,	43	S.			Number 5,		Cars on gangway—stepped on spreader, which unhitched.
24	Henry Davis,	American,	Slatepicker,	17	S.			Wanamie Washery.		Drawn into conveyor line. Outside.
Sept. 11	Walter Zelinski,	American,	Miner,	39	M.	1	5	Number 6,		Falling prop dislodged by rush of coal at face of gangway.
14	John Howells,	American,	Motorman,	21	S.			Wanamie,		Burned by gas in old workings.
27	Joseph Berry,	Polish,	Miners laborer,	47	M.	1		Wanamie,		Burned by gas at face of chute.
Oct. 5	Henry M. Williams,	Welsh,	Miner,	60	M.	1		Alden,		Premature blast at face of chamber.
	Joseph Pettel,	Polish,	Laborer,	60	M.	1	2	Number 7,		Fall of roof 40 feet from face of chamber.
27	John Basto,	American,	Slatepicker,	19	S.			Bliss,		Caught by revolving shaft. Outside.
	Joseph Sokoloski,	Polish,	Laborer,	27	M.	1	1	West End,		Runaway car on slope.
28	Michael Ruduski,	American,	Driver,	17	S.			Alden,		Fall of roof on gangway road.
Nov. 20	John Presiepski,	American,	Laborer,	17	S.			Number 6,		Caught in conveyor line. Outside.
Dec. 16	John McHale,	American,	Runner,	24	S.			Bliss,		Derailed cars on gangway.
22	Nick Kossilo,	Russian,	Miner,	29	M.	1		East Alden,		Fall of roof on gangway.
	Alex Aponick,	Polish,	Miners laborer,	29	S.			Number 7,		Fall of roof at face of chamber.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 16	Joseph Las,	Polish,	Patcher,	16	S.	Wanamie No. 18,	Luzerne,	Squeezed between derailed car and prop.
19	John Koleski,	American,	Doorboy,	17	S.	Bliss,		Squeezed between car and rib.
Feb. 17	Stanley Koshiba,	Polish,	Road cleaner,	57	M.	Number 6,		Slipping and falling. Outside.
April 12	Peter Tatoo,	Italian,	Laborer,	26	S.	Wanamie,		Struck by plank caught by motor passing on gangway road.
	Henry Koskoski,	Polish,	Miner,	38	M.	Alden,		Fall of coal at face of chamber.
13	Charles Zinnick,	Russian,	Miner,	38	M.	Alden,		Premature blast.
28	Nick Vitalucci,	Italian,	Miner,	43	M.	West End,		Fall of roof at face of chamber.
May 6	Joseph Ososki,	Polish,	Miner,	36	M.	Number 6,		Fall of roof at face of chamber.
18	Jacob Szyhowski,	Polish,	Miner,	41	M.	Alden,		Pushing car.
25	Peter Sytloski,	Polish,	Laborer,	46	M.	Bliss,		Fall of roof at face of chamber.
26	Zenon Warcincavage,	Polish,	Runner,	19	S.	Bliss,		Struck by lever while throwing a switch.
28	Peter Swagonis,	Polish,	Driver,	18	S.	Number 6,		Car running out of chamber.
June 2	Joseph Makarcyk,	Polish,	Miner,	46	M.	Number 5,		Lifting rock.
8	Thomas Woodring,	American,	Machinist,	50	S.	Wanamie No. 18,		Falling against car.
17	James B. Hill,	American,	Laborer,	21	S.	Number 7,		Caught between cars. Outside.
29	John Warimia,	Polish,	Miner,	32	M.	Auchincloss,		Fall of coal at face of chamber.
July 10	Walter Orowski,	Polish,	Door-boy,	16	S.	Auchincloss,		Fall of rock on gangway.
13	Thomas Wychulis,	Lithuanian,	Miner,	34	M.	Bliss,		Fall of rock at face of chamber.
17	Mike Lasinski,	Austrian,	Miner,	37	S.	Bliss,		Premature blast.
24	Anthony Supenak,	American,	Brakeman,	19	S.	Number 5,		Squeezed between car and motor.
Aug. 6	Roman Moxey,	Polish,	Laborer,	74	M.	Number 6,		Struck by axe.
Sept. 1	Robert Hill,	American,	Footman,	25	M.	Bliss,		Caught when car ran over block placed in front of wheel.
8	Gilbert Gould,	English,	Miner,	58	M.	Bliss,		Struck by "T" iron rail.
11	Peter Swamba,	Polish,	Miner,	21	M.	Bliss,		Fall of coal at face of chamber.
15	Anthony Kracofski,	American,	Laborer,	32	M.	Number 7,		Derailed car.
17	William Grozz,	American,	Laborer,	30	S.	West End,		Fall of coal at face of place.
18	Michael Kupshaw,	Russian,	Laborer,	46	M.	Bliss,		Blast.
	Wassil Ronalski,	Russian,	Miner,	27	M.			
27	John Kamonko,	Polish,	Miner,	38	M.	Wanamie No. 18,		Burned by explosion of gas at face of chamber.
Oct. 5	John Corchefski,	Polish,	Miner,	50	M.	Number 7,		Fall of rock.
8	Clem Valance,	American,	Driver,	18	S.	Alden,		Kicked by mule.
18	Louis Zoltewicz,	American,	Door tender,	18	S.	Number 7,		Derailed car.
28	Steve Basnamie,	American,	Driver,	17	S.	Alden,		Fall of roof on gangway road.
Nov. 9	Stanley Lapinckl,	Polish,	Miner,	32	M.	West End,		Fall of rock at face of chamber.
27	Edward Bannock,	Polish,	Laborer,	23	M.	Alden,		Fall of coal at face of chamber.
29	Octavius Gibbons,	English,	Miner,	44	M.	Number 7,		Fall of rock.
Dec. 7	Andrew Stashak,	Polish,	Laborer,	17	S.	Wanamie No. 18,		Caught between block and car. Outside

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Nanticoke, May 4 and 5. The Board of Examiners was composed of Joseph J. Walsh, Mine Inspector; F. H. Kohlbraker, Superintendent; John H. Keating and Andrew P. Seletski, Miners.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Marvin J. Bridle, Mocanaqua; Thomas R. Roberts, George Ruck, Frank Sluzalis, Joseph H. Weiss, Nanticoke; Joseph A. Shershen, Frank M. Shiffka, Glen Lyon.

ASSISTANT MINE FOREMEN

Joseph Biencofski, Andrew S. Dobrawalski, Isaac Edwards, John Lunski, Andrew Maddy, Ernest Edward Martin, Frank Smith, Wendell Taylor, Thomas B. Thomas, Herbert Winfield, Alfred Wysocki, John Yagodzinski, Nanticoke; William P. Kline, Quinto Mucci, Shickshinny; John E. Naugle, Pond Hill.

1920

FIFTEENTH DISTRICT

LUZERNE COUNTY

David J. Roderick, Inspector, Hazleton

SUMMARY OF STATISTICS

Collieries in operation (breakers),	16
Washeries in operation,	
Mines in district,	56
Gaseous mines in operation,	19
Non-gaseous mines in operation,	37
Tons of coal shipped to market,	3,365,821
Tons used at mines for steam and heat,	468,731
Tons sold to local trade and used by employes,	147,994
Tons produced (gross),	3,982,546
Persons employed inside,	4,085
Persons employed outside,	2,345
Persons employed inside between 16 and 21 years,	286
Persons employed outside between 14 and 21 years,	506
Fatal accidents inside,	15
Fatal accidents outside,	4
Serious non-fatal accidents inside,	34
Serious non-fatal accidents outside,	10
Tons produced per fatal accident inside,	265,503
Tons produced per fatal accident inside and outside,	209,608
Persons employed per fatal accident inside	272
Persons employed per fatal accident outside,	586
Persons employed per fatal accident inside and outside,	338
Persons employed per non-fatal accident inside,	120
Persons employed per non-fatal accident outside,	235
Persons employed per non-fatal accident inside and outside,	146
Wives made widows,	14
Children made orphans,	24
Steam locomotives inside,	3
Steam locomotives outside,	76
Compressed air locomotives inside,	6
Electric motors inside,	38
Gasoline locomotives inside,	1
Cylindrical boilers,	1

Tubular boilers,	128
Steam engines of all classes,	205
Electric dynamos,	26
Pumps of all classes,	136
Pumps delivering water to surface,	59
Air compressors,	24
Fans in use,	39
Old mines abandoned,	3

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
G. B. Markle Company,	1,247,134
Coxe Brothers and Company, Incorporated,	1,078,207
Pardee Brothers and Company, Incorporated,	668,822
Lehigh Valley Coal Company,	565,477
Upper Lehigh Coal Company,	186,004
J. S. Wentz Company,	106,083
East Point Coal Company,	50,749
M. S. Kemmerer and Company,	36,495
Wolf Collieries Company, Incorporated,	35,928
Harleigh-Brookwood Coal Company,	7,647
Total,	3,982,546

Production by Counties

Luzerne,	3,982,546

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced outside fatal accident inside	Tons produced inside fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes per fatal accident	Employes per fatal accident	Employes per non-fatal accident	Employes per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
G. B. Markle Co.,	4	1	5	14	5	19	311,784	89,081	1,133	781	1,914	283	781	81	156
Coxe Brothers and Co., Inc.,	2	1	3	11	[illegible]	13	539,104	98,019	963	440	1,403	482	440	88	220
Pardee Brothers and Co., Inc.,	2	------	2	1	------	1	334,411	668,822	727	288	1,015	364	----------	727	----------
Lehigh Valley Coal Co.,	5	------	5	2	------	2	113,095	282,739	709	467	1,176	142	----------	354	----------
Upper Lehigh Coal Co.,	1	------	1	2	1	3	186,004	93,002	176	133	309	176	----------	88	133
J. S. Wentz Co.,	------	1	1	2	1	3	----------	53,042	80	110	190	----------	110	40	110
M. S. Kemmerer and Co.,	1	------	1	2	------	2	36,495	18,248	85	38	123	85	----------	43	----------
Wolf Collieries Co., Inc.,	------	1	1	------	1	1	----------	----------	61	14	75	----------	14	----------	14
Other Operators—no accidents,	------	------	------	------	------	------	----------	----------	151	74	225	----------	----------	----------	----------
Totals and averages,	15	4	19	34	10	44	265,503	117,134	4,085	2,345	6,430	272	586	120	235

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
G. B. Markle Co.						
Highland No. 2,	Luzerne,	A. B. Jessup,	Jeddo,			Lehigh Valley.
Highland No. 5,						
Jeddo No. 4,						
Jeddo No. 7,						
Coxe Brothers and Co., Inc.						
Drifton,	Luzerne,	Thomas P. Thomas,	Wilkes-Barre,	H. W. Montz,	Hazleton,	Lehigh Valley.
Eckley,				H. W. Montz,	Hazleton,	
Deringer,				S. R. Wood,	Hazleton,	
Pardee Brothers and Co., Inc.						
Lattimer,	Luzerne,	John W. Crooks,	Lattimer Mines,			Lehigh Valley.
Lehigh Valley Coal Co.						
Hazleton No. 1,	Luzerne,	Thomas P. Thomas,	Wilkes-Barre,	H. W. Montz,	Hazleton,	Lehigh Valley.
Hazleton Shaft,						
Upper Lehigh Coal Co.						
Upper Lehigh,	Luzerne,	G. P. Troutman,	Hazleton,	D. W. Mulr,	Upper Lehigh,	C. R. R. of N. J.
J. S. Wentz Co.						
Hazle Brook,	Luzerne,	G. P. Troutman,	Hazleton,	E. P. Humphrey,	Hazle Brook,	Lehigh Valley.
East Point Coal Co.						
Pond Creek,	Luzerne,			John Evans,	Freeland,	C. R. R. of N. J.
M. S. Kemmerer and Co.						
Sandy Run,	Luzerne,	W. Y. Grady,	Minersville,			C. R. R. of N. J.
Wolf Collieries Co., Inc.						
Wolf,	Luzerne,	Joseph G. Sarlcks,	Freeland,	Joseph G. Sarlcks,	Freeland,	Lehigh Valley.
Harleigh-Brookwood Coal Co.						
X Harleigh,	Luzerne,	Thomas R. Jones,	Frackville,			Lehigh Valley.

X Abandoned in April.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
G. B. Markle Co.												
Highland No. 2,	Luzerne,	236,261	46,079	8,085	290,425	284	405	----------	3	----------	77,459	----------
Highland No. 5,	Luzerne,	209,805	26,964	26	236,795	265	357	----------	1	----------	78,650	----------
Jeddo No. 4,	Luzerne,	418,652	47,625	1,911	468,188	266	901	4	15	----------	220,979	----------
Jeddo No. 7,	Luzerne,	219,229	17,279	15,218	251,726	258	251	1	----------	----------	44,465	----------
Totals,	----------	1,083,947	137,947	25,240	1,247,134	----------	1,914	5	19	----------	421,553	----------
Coxe Brothers and Co., Inc.												
Drifton,	Luzerne,	277,121	88,646	17,609	383,376	278	543	1	4	6,525	131,045	----------
Eckley,	Luzerne,	299,319	34,651	17,708	351,678	286	265	----------	3	150	62,366	----------
Deringer,	Luzerne,	332,136	6,478	4,539	343,153	283	595	2	6	275	186,373	----------
Totals,	----------	908,576	129,775	39,856	1,078,207	----------	1,403	3	13	6,950	379,784	----------
Pardee Brothers and Co., Inc.												
Lattimer,	Luzerne,	593,876	64,000	10,946	668,822	275	1,015	2	1	----------	369,315	----------
Lehigh Valley Coal Co.												
Hazleton No. 1,	Luzerne,	168,227	21,682	63,222	253,131	247	440	1	1	----------	96,750	----------
Hazleton Shaft,	Luzerne,	235,872	70,708	5,766	312,346	253	736	4	1	----------	180,563	----------
Totals,	----------	404,099	92,390	68,988	565,477	----------	1,176	5	2	----------	277,313	----------
Upper Lehigh Coal Co.												
Upper Lehigh,	Luzerne,	171,359	14,098	547	186,004	282	309	1	3	----------	94,368	----------

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
J. S. Wentz Co. Hazle Brook,	Luzerne,	81,661	23,543	879	106,083	216	190	1	3	----------	35,435	----------
East Point Coal Co. Pond Creek,	Luzerne,	49,611	490	648	50,749	274	140	--------	--------	----------	12,716	----------
M. S. Kemmerer and Co. Sandy Run,	Luzerne,	32,705	2,900	890	36,495	260	123	1	2	----------	5,475	1,975
Wolf Collieries Co., Inc. Wolf,	Luzerne,	32,440	3,488	----------	35,928	273	75	1	1	----------	21,125	----------
Harleigh-Brookwood Coal Co. Harleigh, ***	Luzerne,	7,547	100	----------	7,647	74	85	--------	--------	----------	5,644	1,426
Grand totals,		3,365,821	468,731	147,994	3,982,546	--------	6,430	19	44	6,950	1,622,728	3,401

***Abandoned in April.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant: Boilers: Cylindrical: Number	Power plant: Boilers: Cylindrical: Total horse power	Power plant: Boilers: Tubular: Number	Power plant: Boilers: Tubular: Total horse power	Power plant: Engines: Steam engines (all classes): Number	Power plant: Engines: Steam engines (all classes): Total horse power	Power plant: Engines: Internal combustion engines (gas): Number	Power plant: Engines: Internal combustion engines (gas): Total horse power	Power plant: Engines: Electric dynamos (all classes): Number	Power plant: Engines: Electric dynamos (all classes): Total kilowatts	Pumps: Total number	Pumps: Total capacity in gallons per minute	Pumps delivering water to the surface: Number	Pumps delivering water to the surface: Approximate number of gallons per minute	Haulage: Horses and mules	Haulage: Locomotives: Gasoline	Haulage: Locomotives: Steam	Haulage: Locomotives: Air	Haulage: Locomotives: Electric	Air compressors: Number	Air compressors: Total capacity in cubic feet per minute
G. B. Markle Co.,	Luzerne,	----	----	29	9,900	59	8,632	----	----	6	1,195	48	34,300	10	13,700	120	----	30	6	14	11	6,088
Coxe Brothers and Co., Inc.		----	----	34	6,460	46	4,425	----	----	2	250	15	10,700	12	6,700	204	----	21	----	5	5	2,400
Pardee Brothers and Co., Inc.		----	----	12	4,000	26	3,300	----	----	----	----	6	3,050	2	2,300	87	----	10	----	3	3	3,775
Lehigh Valley Coal Co.,		----	----	29	5,600	42	5,525	----	----	2	300	23	20,200	8	14,400	70	----	6	----	12	----	----
Upper Lehigh Coal Co.,		----	----	8	1,400	10	960	----	----	1	200	10	7,400	10	7,400	22	1	7	----	4	2	1,200
J. S. Wentz Co.,		----	----	11	1,500	10	1,000	----	----	----	----	16	6,350	4	2,000	14	----	4	----	----	1	900
East Point Coal Co.,		----	----	1	150	1	100	----	----	----	----	5	2,400	2	1,800	16	----	----	----	----	1	200
M. S. Kemmerer and Co.,		1	80	----	----	----	----	----	----	----	----	5	4,000	5	1,000	20	----	----	----	----	1	----
Wolf Collieries Co., Inc.,		----	----	3	425	5	235	----	----	----	----	4	2,350	2	1,100	9	----	----	----	----	----	----
Harlelgh-Brookwood Coal Co.		----	----	1	10	----	----	----	----	15	591	4	4,000	4	4,000	6	----	1	----	----	----	----
Totals,		1	80	128	29,445	205	24,177	----	----	26	2,536	136	94,750	59	54,400	568	1	79	6	38	24	14,563

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiecmen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
G. B. Markle Co.,	Luzerne.	9	13	6	503	186	------	------	23	20	59	32	11	138	19	2	23	89	1,133
Coxe Brothers and Co., Inc.,	Luzerne.	7	18	------	533	85	------	------	11	9	95	25	10	49	14	4	8	95	963
Pardee Brothers and Co., Inc.,	Luzerne.	2	10	5	470	57	------	------	3	3	45	33	14	58	2	2	6	17	727
Lehigh Valley Coal Co.,	Luzerne.	6	18	------	345	72	------	------	14	11	12	21	13	64	16	6	8	103	709
Upper Lehigh Coal Co.,	Luzerne.	3	2	------	65	38	------	------	2	1	11	4	2	4	6	------	------	38	176
J. S. Wentz Co.,	Luzerne.	2	------	------	43	3	------	------	------	------	10	2	------	6	12	------	------	2	80
East Point Coal Co.,	Luzerne.	1	------	------	58	------	------	------	------	------	14	2	------	4	3	------	------	------	82
M. S. Kemmerer and Co.,	Luzerne.	1	2	------	39	13	------	------	------	------	6	1	------	12	3	1	------	7	85
Wolf Collieries Co., Inc.,	Luzerne.	1	1	------	31	2	------	------	------	------	4	2	3	7	6	------	------	4	61
Harleigh-Brookwood Coal Co.,	Luzerne.	1	2	------	35	10	------	------	------	------	7	2	------	4	5	1	------	2	69
Totals,		33	66	11	2,122	466	------	------	53	44	263	124	53	346	86	16	45	357	4,085

TABLE 3.—PART 1.—Continued.

Operators	County	Outside												Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	
G. B. Markle Co.,	Luzerne,	1	6	9	24	85	-------	24	-------	48	13	571	781	1,914
Coxe Brothers and Co., Inc.,		-------	6	12	35	84	15	16	4	1	9	258	440	1,403
Pardee Brothers and Co., Inc.,		1	2	3	32	24	11	11	12	6	13	173	288	1,015
Lehigh Valley Coal Co.,		-------	3	6	35	69	11	7	41	22	8	265	467	1,176
Upper Lehigh Coal Co.,		1	3	4	7	18	8	5	14	3	3	67	133	309
J. S. Wentz Co.,		1	2	1	4	21	1	3	11	1	3	62	110	190
East Point Coal Co.,		1	-------	1	3	2	1	-------	9	2	2	37	58	140
M. S. Kemmerer and Co.,		1	1	2	1	4	2	-------	3	3	2	16	38	123
Wolf Collieries Co., Inc.,		1	-------	1	1	8	1	1	-------	-------	1	-------	14	75
Harleigh-Brookwood Coal Co.,		-------	1	2	3	5	1	-------	-------	-------	1	3	16	85
Totals,	-------	7	24	41	148	320	51	67	94	86	55	1,452	2,345	6,430

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
G. B. Markle Co.,	Luzerne,	16	19	21	23	24	26	26	26	13	25	23	26	268
Coxe Brothers and Co., Inc.,		25	21	26	23	25	26	26	26	12	25	22	25	282
Pardee Brothers and Co., Inc.,		26	21	25	22	24	26	26	25	11	24	22	23	275
Lehigh Valley Coal Co.,		23	22	22	18	21	23	22	22	11	22	20	24	250
Upper Lehigh Coal Co.,		26	22	22	23	25	26	25	26	13	25	23	26	282
J. S. Wentz Co.,		20	19	19	19	20	20	19	20	8	18	16	18	216
East Point Coal Co.,		26	19	25	17	23	26	25	26	12	25	24	26	274
M. S. Kemmerer and Co.,		26	16	12	17	13	24	24	27	26	26	23	26	260
Wolf Collieries Co., Inc.,		25	20	24	22	22	26	26	25	10	25	22	26	273
Harleigh-Brookwood Coal Co.,***,		23	19	21	11									74

*** Harleigh Colliery abandoned.

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 14	Thomas Gimmer,	Slavonian,	Miner's laborer,	52	M.	1	5	Sandy Run,	Luzerne,	Fall of top rock at face of slope.
Mar. 25	Ne'l Tomeo,	Italian,	Miner,	21	S.			Lattimer,		Fall of top rock at face of breast.
April 22	Peter Jamack,	Lithuanian,	Miner,	34	M.	1	2	Lattimer,		Fall of top coal in cross cut.
23	John Farnum,	Slavonian,	Miner,	44	M.	1		Hazleton Shaft,		Blast at face of breast.
24	Harvey Drum,	American,	Miner,	49	S.			Hazleton Shaft,		Suffocated by fumes from blast of dynamite at face of breast.
27	George Chippil,	Polish,	Miner,	52	M.	1	2	Jeddo No. 7,		Struck by locomotive. Outside.
May 12	John Jacket,	Italian,	Miner,	54	M.	1	2	Hazleton Shaft,		Fall of top rock at face of gangway.
June 19	John Hornick,	Polish,	Miner's laborer,	53	M.	1		Deringer,		Fall of top coal at face of gangway.
22	Thomas Kerspeky,	Polish,	Miner,	40	M.	1	2	Drifton,		Fall of top rock at face of gangway.
July 15	Adolph Pelias,	Lithuanian,	Miner,	33	M.	1	2	Jeddo No. 4,		Falling prop at face of breast.
21	Frank Motskus,	American,	Miner,	24	S.			Upper Lehigh,		Fall of slate on gangway.
22	Thomas C. Sheppard,	American,	Assistant mine foreman,	65	M.	1		Hazleton No. 1,		Burned by explosion of gas in breast.
31	Anthony Walecki,	Polish,	Miner,	33	M.	1	4	Jeddo No. 4,		Rush of slush and silt while robbing pillars.
Aug. 10	William Krommas,	American,	Topman,	20	S.			Wolf,		Electricity. Came into contact with electric wire. Outside.
Sept. 22	Morris Johns,	American,	Carpenter,	21	S.			Hazle Brook,		Struck by timber while repairing breaker. Outside.
24	Samuel Lamont,	Italian,	Miner's laborer,	23	M.	1	2	Jeddo No. 4,		Premature blast at face of tunnel.
Oct. 13	John Slaback,	Austrian,	Miner,	39	M.	1	1	Hazleton Shaft,		Fall of top rock at face of chamber.
Dec. 21	Mike Polanko,	Slavonian,	Miner,	29	M.	1	2	Jeddo No. 4,		Struck by lump of coal that rolled down chute.
29	Ernest Kirchdoerfer,	German,	Laborer,	57	M.	1		Deringer,		Struck on head by falling skid—loading timber. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date		Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan.	6	George Hrino,	Slavonian,	Miner,	33	M.	Hazle Brook,		Fall of top coal at face of gangway.
	8	Harry Kislan,	Hungarian,	Fuelman,	53	M.	Eckley,		Caught by rush of culm at bank. Outside.
	13	John Palumbo,	Italian,	Miner,	40	M.	Hazleton Shaft,		Fall of top slate at face of breast.
	22	Victor Brasofskie,	Polish,	Patcher,	17	S.	Highland No. 2,		Caught between sprag and car wheel on gangway.
	28	Harry Tipton,	American,	Laborer,	20	M.	Upper Lehigh,		Stepping on nail—infection.
Feb.	9	Mike Koroly,	Slavonian,	Miner,	28	M.	Jeddo No. 4,		Falling down breast.
	20	John Zubichuck,	Russian,	Miner,	25	M.	Jeddo No. 4,		Fall of top coal in breast.
	25	Thomas Serra,	Italian,	Miner,	35	M.	Jeddo No. 4,		Struck by piece of coal while loading car.
Mar.	8	Frank Swankoski,	American,	Driver,	21	S.	Eckley,		Caught between timber truck and gangway timber—riding.
April	2	John Hollick,	Slavonian,	Patcher,	18	S.	Jeddo No. 4,		Caught by locomotive on gangway.
	11	Thomas Bauer,	German,	Miner,	45	M.	Deringer,		Struck by piece of rock in breast.
	14	Andrew Ferko,	Polish,	Miner's laborer,	21	S.	Drifton,		Fall of coal from side of pillar.
	23	John Waslofskie,	Polish,	Driver,	33	M.	Jeddo No. 4,	Luzerne,	Fingers caught between spreader hook and hitching staple.
May	30	Stephen Brunstetter,	American,	Driver,	19	S.	Deringer,		Caught between car and mule.
	31	John Dancho,	Slavonian,	Miner's laborer,	35	M.	Hazle Brook,		Caught between mule and stall.
June	14	Mike Hollick,	Slavonian,	Patcher,	24	M.	Jeddo No. 4,		Falling under cars. Outside.
	15	Alex Troell,	American,	Engineer,	50	M.	Upper Lehigh,		Falling under locomotive. Outside.
July	15	Andrew Evan,	Greek,	Miner,	46	M.	Highland No. 2,		Struck by falling collar.
	26	Joseph Sulcosky,	American,	Miner,	26	M.	Eckley,		Fall of top coal in breast.
	29	John Yannis,	Slavonian,	Miner's laborer,	29	S.	Jeddo No. 4,		Explosion of detonator.
	31	Elmer Shaver,	American,	Laborer,	60	M.	Wolf,		Struck by locomotive. Outside.
Sept.	1	Joseph Venis,	Slavonian,	Miner,	38	M.	Lattimer		Struck by piece of rock in breast.
	20	Andrew Stefanick,	Slavonian,	Jigman,	38	M.	Highland No. 2,		Caught in machinery in breaker. Outside.
		William Sipple,	American,	Laborer,	18	S.	Jeddo No. 4,		Falling while playing. Outside.
	22	Mike Polsha,	American,	Miner's laborer,	28	S.	Drifton,		Fall of coal from rib in breast.
		James Welsh,	American,	Miner,	50	M.	Jeddo No. 4,		Blast in ditch.
		John Kametz,	Slavonian,	Slatepicker,	48	M.	Hazle Brook,		Struck by falling debris. Outside.
	23	Frank Duchinsky,	Slavonian,	Miner,	38	M.	Jeddo No. 4,		Fall of rock while timbering.
	24	Lewis Onora,	Italian,	Miner,	29	M.	Jeddo No. 4,		Blast in tunnel.
		Charles Mumie,	American,	Miner,	39	M.			
Oct.	8	Victor Butchko,	Polish,	Miner,	36	S.	Drifton,		Fall of top rock in breast.
	9	Frank Butcavish,	Russian,	Miner,	34	M.	Hazleton No. 1,		Struck by piece of coal in manway.
	14	Mike Risko,	Slavonian,	Miner,	33	S.	Sandy Run,		Fall of top rock in chute.

Oct.	14	John Hashi,	Slavonian,	Miner,	48	S.	Sandy Run,		Caught between pieces of rock in chute.
Nov.	10	Mansuta Sterehole,	Tyrolean,	Miner,	44	M.	Deringer,		Falling off platform.
	12	Jacob Houser,	American,	Miner's laborer,	24	S.	Deringer,		Caught between car and timber.
	26	Samuel Jones,	Welsh,	Miner,	50	M.	Jeddo No. 4,		Caught between wooden horse and timber on gangway.
	29	Mike Kushma,	Slavonian,	Miner,	50	M.	Drifton,		Fall of top slate in breast.
Dec.	9	William Bicking,	American,	Teamster,	38	M.	Highland,		Squeezed between floor sill of loft and bale of hay on wagon. Outside.
	17	Charles Foose,	American,	Patcher,	19	S.	Deringer,		Bumped against motor. Outside.
		John Mesh,	American,	Miner's laborer,	21	S.	Upper Lehigh,		Flying coal from blast.
	20	Toney Cyrlano,	Italian,	Laborer,	50	M.	Jeddo No. 4,		Struck by dump cars. Outside.
	28	Michael Spaun,	Slavonian,	Patcher,	19	S.	Jeddo No. 4,		Caught between derailed car and rib on gangway.
	30	Frank Huwodnick,	Austrian,	Miner,	65	S.	Deringer,		Putting arm around prop while pushing coal in chute.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held at Hazleton, May 4 and 5. The Board of Examiners was composed of David J. Roderick, Mine Inspector, Hazleton; Charles H. Rohland, Superintendent, Upper Lehigh; James North, Miner, Drifton; John O'Hara, Miner, Hazleton.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

George Mealling, Francis McHugh, Gordon Weightman, James Buchman, Martin K. Kusmider, Freeland; William O'Hara, Robert J. Robertson, William H. Wilkins, Arthur Henry Griesing, Hazleton; Michael Ambruch, Deringer; Peter Dougherty, Lattimer Mines; Andrew J. Kochie, Drifton.

ASSISTANT MINE FOREMEN

Adam W. Paisley, Edward Kennedy, James Corrigan, Hazleton; Michael Senick, John Senick, Eckley; Rocco Calvello, Willard W Stauffer, Neuremberg; Titisanna Morie, John E. Sabo, Henry Kirchdoerfer, Tomhicken; Hurley Mensinger, Zion Grove; Florian Konschnik, Weston.

1920

SIXTEENTH DISTRICT

LUZERNE, CARBON, SCHUYLKILL AND COLUMBIA COUNTIES

J. J. Stickler, Inspector, Hazleton

SUMMARY OF STATISTICS

Collieries in operation (breakers),	11
Washeries in operation,	2
Mines in district,	57
Gaseous mines in operation,	11
Non-gaseous mines in operation,	46
Tons of coal shipped to market,	2,554,452
Tons used at mines for steam and heat,	309,416
Tons sold to local trade and used by employes,	338,254
Tons produced (gross),	3,202,122
Persons employed inside,	3,228
Persons employed outside,	2,543
Persons employed inside between 16 and 21 years,	239
Persons employed outside between 14 and 21 years,	429
Fatal accidents inside,	13
Fatal accidents outside,	3
Serious non-fatal accidents inside,	20
Serious non-fatal accidents outside,	7
Tons produced per fatal accident inside,	246,317
Tons produced per fatal accident inside and outside,	200,133
Persons employed per fatal accident inside,	248
Persons employed per fatal accident outside,	848
Persons employed per fatal accident inside and outside,	361
Persons employed per non-fatal accident inside,	161
Persons employed per non-fatal accident outside,	363
Persons employed per non-fatal accident inside and outside,	214
Wives made widows,	13
Children made orphans,	41
Steam locomotives inside,	1
Steam locomotives outside,	58
Compressed air locomotives outside,	8

Electric motors inside,	23
Electric motors outside,	2
Tubular boilers,	133
Steam engines of all classes,	154
Electric dynamos,	9
Pumps of all classes,	118
Pumps delivering water to surface,	54
Air compressors,	14
Fans in use,	25

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Cranberry Creek Coal Company,	872,447
Coxe Brothers and Company, Incorporated,	629,247
Lehigh and Wilkes-Barre Coal Company,	593,806
Lehigh Valley Coal Company,	352,447
Charles M. Dodson and Company,	337,994
Estate of A. S. Van Wickle,	177,153
Harwood Coal Company,	126,577
Evans Colliery Company,	54,723
Beaver Valley Coal Company,	38,303
Campion Coal Company,	12,567
Thomas R. Reese Coal Company,	6,858
Total,	3,202,122

Production by Counties

Luzerne,	1,641,435
Schuylkill,	904,968
Carbon,	617,416
Columbia,	38,303
Total,	3,202,122

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Toside									
Cranberry Creek Coal Co.,	5	1	6	7	4	11	174,489	124,635	862	484	1,346	172	484	123	121
Coxe Brothers and Co., Inc.,	2		2				314,624		634	301	935	317			
Lehigh and Wilkes-Barre Coal Co.,	4	1	5	10	2	12	118,761	59,381	618	587	1,205	154	587	62	294
Lehigh Valley Coal Co.,	1	1	2				176,224		339	289	628	339	289		
Charles M. Dodson and Co.,				1		1		337,994	244	366	610			244	
Estate of A. S. Van Wickle,	1		1				177,153		187	190	377	187			
Harwood Coal Co.,				1	1	2		126,577	196	195	391			196	195
Evans Colliery Co.,				1		1		54,723	78	36	114			78	
Other Operators—no accidents,									70	95	165				
Totals and averages,	13	3	16	20	7	27	246,317	160,106	2,228	2,543	5,771	248	848	161	363

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Cranberry Creek Coal Co. Cranberry,	Luzerne,	J. B. Warriner,	Hazleton,	A. L. Walbridge,	Hazleton,	Lehigh Valley,
Coxe Brothers and Co., Inc. Beaver Meadow, Oneida,	Carbon, Schuylkill,	Thomas Thomas,	Wilkes-Barre,	G. R. Wood,	Hazleton,	Lehigh Valley,
Lehigh and Wilkes-Barre Coal Co. Audenried No. 4, Honey Brook No. 5,	Schuylkill,	Douglas Bunting,	Wilkes-Barre,	Walter Fahringer,	Audenried,	C. R. R. of N. J.
Lehigh Valley Coal Co. Spring Mountain, Spring Brook, Spring Brook Washery,	Luzerne, Carbon,	Thomas Thomas,	Wilkes-Barre,	G. R. Wood,	Hazleton,	Lehigh Valley,
Charles M. Dodson and Co. Beaver Brook,	Luzerne,	B. H. Stockett,	Shenandoah,	J. D. Lewis,	Beaver Brook,	L. V.; C. R. R. of N. J.
Estate of A. S. VanWickle. Coleraine,	Carbon,	John Harvey,	Junedale,	John Harvey,	Hazleton,	P. & R.; C. R. R. of N. J.; L. V.
Harwood Coal Co. Harwood,	Luzerne,	J. B. Warriner,	Hazleton,	J. W. Rich,	Hazleton,	Lehigh Valley,
Evans Colliery Co. Evans,	Carbon,	Gwillym Edwards,	Luzerne,	James S. Burgess,	Hazleton,	Lehigh Valley,
Beaver Valley Coal Co. Scotch Valley,	Columbia,			W. A. Wallace,	Mainville,	Pennsylvania
Campion Coal Co. Silver Brook Washery,	Schuylkill,	Thomas F. Leahy,	Mahanoy City,	Thomas F. Leahy,	Mahanoy City,	P. & R.
Thomas R. Reese Coal Co. Dusky Diamond,	Luzerne,	Thomas R. Reese,	Audenried,	Thomas R. Reese,	Audenried,	C. R. R. of N. J.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Cranberry Creek Coal Co.												
Cranberry,	Luzerne,	584,872	34,130	253,445	872,447	289	1,346	6	11	3,250	300,575	
Coxe Brothers and Co., Inc.												
Beaver Meadow,	Carbon,	297,032	25,532	8,088	330,652	279	436			350	127,625	
Oneida,**	Schuylkill,	268,221	17,664	12,710	298,595	281**	499	2			139,610	
Totals,		565,253	43,196	20,798	629,247		935	2		350	267,235	
Lehigh and Wilkes-Barre Coal Co.												
Audenreid No. 4,	Schuylkill,*	288,428	46,118	7,359	341,905	258	654	4	6	11,825	115,100	15,500
Honey Brook No. 5,	Schuylkill,	226,251	25,650		251,901	257	551	1	6	15,050	101,950	
Totals,		514,679	71,768	7,359	593,806		1,205	5	12	26,875	217,050	15,500
Lehigh Valley Coal Co.												
Spring Mountain,	Luzerne,	226,514	63,344	7,701	297,559	277	457			600	62,800	
Spring Brook,**	Carbon,	53,353		1,535	54,888	273**	171	1		159	21,614	
Spring Brook Washery,	Carbon,				***	***	***	1				
Totals,		279,867	63,344	9,236	352,447		628	2		759	84,414	
Charles M. Dodson and Co.												
Beaver Brook,	Luzerne,	310,747	24,504	2,743	337,994	287	610		1	43,100	111,979	
Estate of A. S. Van Wickle.												
Coleraine,	Carbon,	110,309	64,549	2,295	177,153	294	377	1		2,500	41,575	

TABLE 2.—PART 1.—Continued.

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Harwood Coal Co.												
Harwood,	Luzerne,	85,000	1,200	40,377	126,577	288	391	--------	2	----------	61,475	----------
Evans Colliery Co.												
Evans,	Carbon,	53,515	600	608	54,723	204	114	--------	1	----------	3,675	34,600
Beaver Valley Coal Co.												
Scotch Valley,	Columbia,	31,229	6,000	1,074	38,303	249	133	--------	--------	7,500	10,000	7,000
Campion Coal Co.												
Silver Brook Washery,	Schuylkill,	12,442	125	----------	12,567	113	12	--------	--------	----------	----------	----------
Thomas R. Reese Coal Co.												
Dusky Diamond,	Luzerne,	6,539	----------	319	6,858	260	20	--------	--------	----------	11,000	----------
Grand totals,		2,554,452	309,416	338,254	3,202,122	--------	5,771	16	27	84,334	1,108,978	57,100

* Slopes Nos. 21 and 23 in Carbon County; no production.
** Coal prepared at Spring Mountain breaker.
*** Included with Spring Brook Colliery.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant: Boilers: Cylindrical: Number	Power plant: Boilers: Cylindrical: Total horse power	Power plant: Boilers: Tubular: Number	Power plant: Boilers: Tubular: Total horse power	Power plant: Engines: Steam engines (all classes): Number	Power plant: Engines: Steam engines (all classes): Total horse power	Power plant: Engines: Internal combustion engines (gas): Number	Power plant: Engines: Internal combustion engines (gas): Total horse power	Power plant: Engines: Electric dynamos (all classes): Number	Power plant: Engines: Electric dynamos (all classes): Total kilowatts	Power plant: Total number	Pumps: Total capacity in cubic feet per minute	Pumps: Pumps delivering water to the surface: Number	Pumps: Pumps delivering water to the surface: Approximate number of gallons per minute	Haulage: Locomotives: Horses and mules	Haulage: Locomotives: Gasoline	Haulage: Locomotives: Steam	Haulage: Locomotives: Air	Haulage: Locomotives: Electric	Air compressors: Number	Air compressors: Total capacity in cubic feet per minute
Cranberry Creek Coal Co.,	Luzerne,	----	----	4	2,550	3	500	----	----	1	360	22	24,350	17	22,550	117	----	18	----	13	2	696
Coxe Brothers and Co., Inc.,	Carbon,	----	----	31	5,800	35	3,550	----	----	----	----	9	2,800	1	1,000	132	----	7	8	----	6	2,750
	Schuylkill,	----	----	36	4,700	46	5,915	----	----	3	243	14	17,200	9	9,000	115	----	9	----	1	3	1,200
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	----	----	18	2,700	23	3,200	----	----	4	374	20	9,800	8	4,000	33	----	4	----	6	1	350
Lehigh Valley Coal Co.,	Luzerne,	----	----	14	2,100	4	600	----	----	----	----	22	20,950	8	13,050	24	----	9	----	3	1	150
	Carbon,	----	----	18	2,150	36	1,340	----	----	----	----	7	7,347	7	2,466	34	----	5	----	----	1	65
Charles M. Dodson and Co.,	Luzerne,	----	----	----	----	----	----	----	----	----	----	12	7,500	2	3,200	34	----	7	----	----	----	----
Estate of A. S. Van Wickle,	Carbon,	----	----	2	700	----	----	----	----	1	50	2	1,500	2	1,500	7	----	----	----	2	----	----
Harwood Coal Co.,	Luzerne,	----	----	5	480	6	180	----	----	----	----	2	500	----	----	10	----	----	----	----	----	----
Evans Colliery Co.,	Carbon,	----	----	2	25	1	15	----	----	----	----	2	500	----	----	----	----	----	----	----	----	----
Beaver Valley Coal Co.,	Columbia,	----	----	----	----	----	----	----	----	----	----	6	*	----	----	----	----	----	----	----	----	----
Campion Coal Co.,	Schuylkill,	----	----	----	----	----	----	----	----	----	----											
Thomas R. Reese Coal Co.,	Luzerne,	----	----	----	----	----	----	----	----	----	----											
Totals,		----	----	133	21,205	154	15,300	----	----	9	1,027	118	92,447	54	56,766	506	----	59	8	25	14	5,211

* Not reported.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine-foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Cranberry Creek Coal Co.,	Luzerne,	5	7	2	471	157	------	------	13	13	54	24	12	40	15	2	2	45	862
Coxe Brothers and Co., Inc.,	Carbon, Schuylkill,	4	11	------	348	33	------	------	8	8	74	25	11	54	1	------	6	51	634
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	3	8	1	317	156	------	------	1	1	45	18	5	------	13	2	29	19	618
Lehigh Valley Coal Co.,	Luzerne, Carbon,	3	6	------	136	38	------	------	7	7	24	11	3	38	19	3	6	38	339
Charles M. Dodson and Co.,	Luzerne,	1	6	1	84	45	------	------	5	4	8	3	2	7	27	7	1	43	244
Estate of A. S. Van Wickle,	Carbon,	1	4	2	79	55	------	------	------	------	15	6	------	10	13	------	------	2	187
Harwood Coal Co.,	Luzerne,	2	1	------	103	31	------	------	------	------	13	5	------	9	6	------	------	26	196
Evans Colliery Co.,	Carbon,	1	1	------	55	6	------	------	------	------	11	2	2	------	------	------	------	------	78
Beaver Valley Coal Co.,	Columbia,	1	1	------	16	17	------	------	------	------	8	2	------	12	------	------	------	5	62
Campion Coal Co.,	Schuylkill,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Thomas R. Reese Coal Co.,	Luzerne,	1	------	------	2	4	------	------	------	------	1	------	------	------	------	------	------	------	8
Totals,		22	45	6	1,611	542	------	------	34	33	253	96	35	170	94	14	44	229	3,228

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Cranberry Creek Coal Co.,	Luzerne,	1	7	12	52	45	18	17	10	12	8	302	484	1,346
Coxe Brothers and Co., Inc.,	Carbon, Schuylkill,	-------	2	7	15	33	11	8	4	2	6	213	301	935
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	3	5	7	19	62	2	12	49	----------	14	414	587	1,205
Lehigh Valley Coal Co.,	Luzerne, Carbon,	-------	3	5	30	35	7	4	28	7	4	166	289	628
Charles M. Dodson and Co.,	Luzerne,	1	6	4	27	32	3	8	22	12	7	244	366	610
Estate of A. S. Van Wickle,	Carbon,	1	2	2	9	37	2	3	29	5	6	94	190	377
Harwood Coal Co.,	Luzerne,	1	2	3	15	14	1	8	8	----------	4	139	195	391
Evans Colliery Co.,	Carbon,	1	1	1	3	3	----------	----------	9	----------	2	16	36	114
Beaver Valley Coal Co.,	Columbia,	-------	2	2	3	10	1	1	5	5	1	41	71	133
Campion Coal Co.,	Schuylkill,	1	1	1	1	2	----------	----------	1	----------	----------	5	12	12
Thomas R. Reese Coal Co.,	Luzerne,	-------	-------	-------	-------	2	----------	----------	----------	----------	----------	10	12	20
Totals,	----------	9	31	44	174	275	45	61	165	43	52	1,644	2,543	5,771

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Cranberry Creek Coal Co.,	Luzerne,	26	24	27	24	25	26	25	24	16	25	22	25	289
Coxe Brothers and Co., Inc.,	Carbon,	25	22	25	22	24	26	26	26	12	25	22	25	280
	Schuylkill,	25	20	23	17	23	23	24	23	13	24	20	23	258
Lehigh and Wilkes-Barre Coal Co.,	Schuylkill,	26	19	24	22	24	25	26	25	12	24	22	26	275
Lehigh Valley Coal Co.,	Luzerne,	26	23	26	24	25	26	25	25	13	25	23	26	287
	Carbon,	26	23	25	22	25	26	26	26	20	25	24	26	294
Charles M. Dodson and Co.,	Luzerne,	26	22	26	25	25	26	25	25	15	25	22	26	288
Estate of A. S. Van Wickle,	Carbon,	21	19	19	15	14	17	15	18	12	17	18	19	204
Harwood Coal Co.,	Luzerne,	26	18	25	23	24	25	26	25	24	7	2	25	249
Evans Colliery Co.,	Carbon,	21	19	24	24	24	17	21	24	24	22	24	16	260
Beaver Valley Coal Co.,	Columbia,													
Thomas R. Reese Coal Co.,	Luzerne,													

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Feb. 20	Stanley Stakoski,	Polish,	Miner,	27	M.	1	2	Cranberry,	Luzerne,	Fall of roof at pillar work.
March 13	William Rohrer,	American,	Engineer,	51	M.	1	1	Spring Brook Washery,	Carbon,	Rush of frozen culm. Outside.
April 24	Stanley Konia,	Polish,	Miner,	30	M.	1		Cranberry,	Luzerne,	Fall of top slate at pillar work.
May 10	Solomon Eli,	American,	Miner,	58	M.	1	2	Audenried No. 4,	Schuylkill,	Fall of top rock in chamber.
	John Mayshick,	American,	Miner's laborer,	20	S.					
17	Charles Wakula,	Greek,	Miner,	31	M.	1	4	Cranberry,	Luzerne,	Fall of top rock in chamber.
28	Steve Letko,	Slavonian,	Miner,	39	M.	1	2	Coleraine,	Carbon,	Fall of top rock at pillar work.
June 3	Paul Gusunskie,	Lithuanian,	Miner,	29	M.	1	4	Audenried No. 4,	Schuylkill,	Fall of top coal at pillar work.
Oct. 6	John Troskie,	American,	Patcher,	19	S.			Cranberry,	Luzerne,	Mine cars. Outside.
22	Stanley Rokovich,	American,	Patcher,	19	S.			Cranberry,	Luzerne,	Cars on gangway.
Nov. 8	George Kachinsky,	Polish,	Miner's laborer,	57	M.	1	3	Oneida,	Schuylkill,	Falling prop on gangway.
29	Thomas Zions,	Polish,	Miner,	36	M.	1	6	Cranberry,	Luzerne,	Fall of top rock at face of gangway.
Dec. 4	Valentine Protsena,	Polish,	Miner,	41	M.	1	7	Audenried No. 4,	Schuylkill,	Fall of top rock at pillar.
18	John Waite,	Polish,	Miner,	62	M.	1	1	Honey Brook No. 5,	Schuylkill,	Blast in stripping. Outside.
23	John Subalefski,	Polish,	Miner,	44	M.	1	4	Oneida,	Schuylkill,	Fall of top slate at pillar.
30	Andrew Sukol,	Austrian,	Miner's laborer,	45	M.	1	5	Spring Brook,	Carbon,	Burned by explosion of gas at face of breast.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 9	John Welter,	American,	Miner,	50	M.	Cranberry,	Luzerne,	Fall of coal from rib.
10	John Keck,	American,	Pumpman,	45	M.	Cranberry,	Luzerne,	Falling.
15	Joseph Yanoskey,	Polish,	Miner's laborer,	41	M.	Honey Brook No. 5,	Schuylkill,	Fall of coal in chute.
29	Stjney Chavera,	Polish,	Miner,	34	M.	Honey Brook No. 5,	Schuylkill,	Caught between sprag and car.
31	Paul Posanky,	Slavonian,	Miner,	45	M.	Audenried No. 4*,	Carbon,	Struck by auger while drilling hole.
Mar. 25	Edward Dwarak,	American,	Bottomman,	21	S.	Audenried No. 4,	Schuylkill,	Cars at bottom of slope.
26	Michael Nosel,	Slavonian,	Laborer,	52	M.	Cranberry,	Luzerne,	Caught between car and shed. Outside.
April 6	John Kuchera,	American,	Laborer,	19	S.	Honey Brook No. 5,	Schuylkill,	Caught between car and spreader on gangway.
22	John Skokoski,	Polish,	Miner,	29	M.	Cranberry,	Luzerne,	Caught between car and coal in chamber.
26	John Bottley,	American,	Jig runner,	19	S.	Cranberry,	Luzerne,	Caught in wheel of jig. Outside.
27	Peter Slazofski,	Polish,	Miner,	45	M.	Cranberry,	Luzerne,	Falling down chute.
May 7	Patrick Slavin,	Irish,	Laborer,	40	S.	Audenried No. 4,	Schuylkill,	Falling while carrying rail.
29	William Carter,	American,	Miner,	43	M.	Beaver Brook,	Luzerne,	Fall of top rock in chamber.
June 11	Andrew Midish,	American,	Patcher,	17	S.	Honey Brook No. 5,	Schuylkill,	Struck by rail falling from car on gangway.
17	Joe Yancovitch,	Lithuanian,	Miner,	40	M.	Cranberry,	Luzerne,	Fall of coal at pillar.
	Andrew Zumar,	Slavonian,	Driver,	24	M.	Evans,	Carbon,	Derailed cars on slope.
July 14	James Appiegate,	American,	Miner's laborer,	50	W.	Audenried No. 4,*	Carbon,	Fall of top rock on gangway.
Aug. 7	Anton Grzab,	Slavonian,	Miner,	40	M.	Harwood,	Luzerne,	Fall of top rock at face.
18	Tony Gollosw,	Polish,	Laborer,	52	M.	Honey Brook No. 5,	Schuylkill,	Falling in stripping. Outside.
31	Mike Rommonelli,	Italian,	Laborer,	57	M.	Honey Brook No. 5,	Schuylkill,	Falling in stripping. Outside.
Sept. 7	John Ripple,	American,	Timber cutter,	66	M.	Harwood,	Luzerne,	Struck by piece of timber. Outside.
28	Henry Diehl,	American,	Laborer,	40	M.	Cranberry,	Luzerne,	Struck by timber. Outside.
Oct. 9	Anthony Branselvich,	Lithuanian,	Miner,	49	M.	Cranberry,	Luzerne,	Struck by piece of coal in chamber.
9	Peter Visitainer,	Austrian,	Miner,	42	M.	Audenried No. 4,	Schuylkill,	Struck by piece of coal in chamber.
Nov. 24	Mike Pekalla,	Polish,	Miner,	31	M.	Cranberry,	Luzerne,	Fall of coal at face.
Dec. 24	Edward Strako,	American,	Patcher,	17	S.	Audenried No. 4,	Schuylkill,	Falling on gangway.
27	John Lucash,	Slavonian,	Laborer,	55	M.	Cranberry,	Luzerne,	Rush of culm. Outside.

* No. 23 Slope.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held at Hazleton, May 4 and 5. The Board of Examiners was composed of J. J. Stickler, Mine Inspector, Hazleton; J. E. Anderson, Engineer, Hazleton; Harry Wear, Miner, Beaver Brook; Michael Flynn, Sr., Miner, Hazleton; Nelson M. Stickler, Clerk, Hazleton.

The following persons passed a satisfactory examination and were granted certificates:

ASSISTANT MINE FOREMEN

Robert Barnhart, Robert Parry, Sylvester Toreson, Hazleton; Andrew M. Kushnerick, Beaver Meadow; Leo Valentine, John McHugh, Lansford; Anthony Dougherty, Audenried; Walter Kelshaw, John Boyle, Jeanesville.

1920

SEVENTEENTH DISTRICT

CARBON AND SCHUYLKILL COUNTIES

Isaac M. Davies, Inspector, Lansford

SUMMARY OF STATISTICS

Collieries in operation (breakers),	5
Washeries in operation,	2
Mines in district,	19
Gaseous mines in operation,	14
Non-gaseous mines in operation,	5
Tons of coal shipped to market,	3,386,797
Tons used at mines for steam and heat,	324,312
Tons sold to local trade and used by employes,	106,784
Tons produced (gross),	3,817,893
Persons employed inside,	4,064
Persons employed outside,	1,986
Persons employed inside between 16 and 21 years,	168
Persons employed outside between 14 and 21 years,	391
Fatal accidents inside,	15
Fatal accidents outside,	3
Serious non-fatal accidents inside,	62
Serious non-fatal accidents outside,	21
Tons produced per fatal accident inside,	254,526
Tons produced per fatal accident inside and outside,	212,105
Persons employed per fatal accident inside,	271
Persons employed per fatal accident outside,	662
Persons employed per fatal accident inside and outside,	336
Persons employed per non-fatal accident inside,	66
Persons employed per non-fatal accident outside,	95
Persons employed per non-fatal accident inside and outside,	73
Wives made widows,	14
Children made orphans,	29
Steam locomotives outside,	42
Electric motors inside,	84
Tubular boilers,	81
Steam engines of all classes,	45
Pumps of all classes,	19
Pumps delivering water to surface,	8
Air compressors,	14
Fans in use,	15

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Lehigh Coal and Navigation Company,	3,817,893

Production by Counties

Carbon,	2,477,983
Schuylkill,	1,339,910
Total,	3,817,893

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Lehigh Coal and Navigation Co.,	15	3	18	65	21	86	254,526	58,737	4,064	1,986	6,050	271	662	63	95

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Lehigh Coal and Navigation Co.						
Nesquehoning,	Carbon,	W. G. Whildin, General Manager,	Lansford,	F. B. Nold,	Lansford,	C. R. R. of N. J.; L. & N. E.
Lansford,	Carbon,					
Coaldale,	Carbon, Schuylkill,					
Greenwood,	Schuylkill,					
Rahn,	Schuylkill,					
Hauto Washery,	Carbon,					
Ashton Washery,	Carbon,					

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Lehigh Coal and Navigation Co.												
Nesquehoning,	Carbon,	702,455	33,207	23,521	759,183	279	1,328	2	14	43,375	265,266	101,535
Lansford,	Carbon,	777,772	134,823	21,949	934,544	274	1,598	6	23	----------	391,144	80,331
Coaldale,	Carbon, Schuylkill,	756,494	81,679	22,212	860,385	279	1,497	3	22	54,475	384,587	130,394
Greenwood,	Schuylkill,	238,449	52,834	51	391,334	274	680	5	11	----------	200,850	40,200
Rahn,	Schuylkill,	433,478	7,046	18,809	459,333	274	740	2	14	----------	128,056	48,317
		3,008,648	309,589	86,542	3,404,779	--------	5,843	18	84	97,850	1,369,903	400,777
Washeries												
Hauto,	Carbon,	221,786	1,607	3,409	226,892	277	90	--------	1	----------	33,525	----------
Ashton,	Carbon,	156,363	13,116	16,743	186,222	272	117	--------	1	----------	----------	31,828
		378,149	14,723	20,242	413,114	--------	207	--------	2	----------	33,525	31,828
Totals,		3,386,797	324,312	106,784	3,817,893	--------	6,050	18	86	97,850	1,403,428	432,605

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Lehigh Coal and Navigation Co.	Carbon, Schuylkill,	----	--------	81	17,598	45	18,895	----	--------	----	--------	19	42,000	8	12,700	183	----	42	----	84	14	14,991

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Lehigh Coal and Navigation Co.	Carbon, Schuylkill,	33	21	67	1,748	42	------	------	90	62	76	81	32	618	9	64	27	1,094	4,064

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Lehigh Coal and Navigation Co.	Carbon, Schuylkill,	9	18	25	133	262	226	96	95	16	45	1,061	1,986	6,050

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Lehigh Coal and Navigation Co., ----	{Carbon, -------} {Schuylkill, -----}	25	23	26	22	24	24	25	24	10	25	22	26	276

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 5	Harry Jenkins,	American,	Miner,	35	M	1	1	Nesquehoning,	Carbon,	Burned by explosion of gas.
7	William J. Evans,	Welsh,	Miner,	68	M	1	------	Greenwood,	Schuylkill,	Struck by timber falling off car on gangway.
Mar. 16	James Nash,	English,	Repairman,	56	M	1	------	Lansford,	Carbon,	Falling into slope.
17	Benjamin Welsh,	American,	Loaderboss,	35	M	1	3	Greenwood,	Schuylkill,	Derailed car on gangway.
24	George Howatt,	American,	Machine helper,	21	S	------	------	Coaldale,	Schuylkill,	Crushed between bumpers of cars. Outside.
April 6	Andrew Yurko,	Slavonian,	Miner,	37	M	1	6	Lansford,	Carbon,	Premature blast at face of breast.
23	Frank Scolk,	Slavonian,	Laborer,	36	S	------	------	Rahn,	Schuylkill,	Falling between cars on gangway.
May 4	Mike Fanyan,	Italian,	Chargeman,	28	S	------	------	Rahn,	Schuylkill,	Premature blast on gangway.
June 9	Robert Parfitt,	American,	Miner,	49	M	1	1	Coaldale,	Schuylkill,	Fall of coal in breast.
21	Mike Dillon,	American,	Miner,	39	M	1	2	Greenwood,	Schuylkill,	Explosion of gas in breast.
	Paul Scrabak,	Slavonian,	Miner,	40	M	1	3			They fired a shot and flame from powder ignited gas.
	Charles Zalinck,	Slavonian,	Miner,	33	M	1	------			
July 1	John Gregory,	Italian,	Miner,	40	S	------	------	Lansford,	Carbon,	Premature blast at face of gangway.
31	Benjamin Watkins,	American,	Fireman,	40	M	1	1	Coaldale,	Carbon,	Electricity. Outside.
Oct. 11	John Rabetz,	Polish,	Miner,	29	M	1	1	Lansford,	Carbon,	Smothered by rush of coal at face of chute.
22	Steve Valent,	Slavonian,	Laborer,	32	M	1	4	Lansford,	Carbon,	Knocked off car. Outside.
Nov. 19	George Shingler,	American,	Miner,	39	M	1	1	Lansford,	Carbon,	Suffocated in chute by mine gas.
Dec. 4	Mike Stanshik,	Slavonian,	Miner,	37	M	1	6	Nesquehoning,	Carbon,	Fall of coal at face of breast.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 8	Jacob Llewellyn,	American,	Miner,	38	M	Coaldale,	Schuylkill,	Lifting keg of spikes.
	George Pertunick,	Austrian,	Miner,	43	W	Lansford,	Carbon,	Fall of coal in breast.
9	Steve Proceio,	Russian,	Dumpman,	40	M	Coaldale,	Schuylkill,	Lifting rock. Outside.
12	Nick Philopovitch,	Austrian,	Bottomman,	29	M	Lansford,	Carbon,	Car on transfer.
20	Mike Rendish,	Slavonian,	Miner's laborer,	65	M	Nesquehoning,	Carbon,	Bumped by cars.
21	James Powell,	American,	Assistant mine foreman.	66	M	Lansford,	Carbon,	Fall of rock.
23	John Bowman,	American,	Carpenter,	30	M	Lansford,	Carbon,	Struck by chain. Outside.
27	Charles Mezaronne,	Italian,	Miner,	45	M	Nesquehoning,	Carbon,	Struck by flying particles from shot.
31	Steve Usack,	Austrian,	Miner,	40	M	Greenwood,	Schuylkill,	Struck by coal in chute.
Feb. 4	John Richmond,	Slavonian,	Miner,	54	M	Coaldale,	Schuylkill,	Squeezed against prop while starting battery.
5	John Macharek,	Austrian,	Miner,	32	M	Coaldale,	Schuylkill,	Struck by piece of coal falling from top.
16	Steve Marazik,	Austrian,	Miner,	25	M	Lansford,	Carbon,	Burned by explosion of gas.
	Steve Venshock,	Austrian,	Miner,	42	M			
17	Patrick Conahan,	American,	Miner,	41	M	Lansford,	Carbon,	Fall of top coal.
19	Peter Burknett,	Austrian,	Miner,	43	M	Rahn,	Schuylkill,	Fall of rock.
20	Charles H. Collins,	American,	Miner,	44	M	Greenwood,	Schuylkill,	Burned by explosion of gas.
	Patrick McFadden,	American,	Miner,	63	M	Coaldale,	Schuylkill,	Struck by a rock from battery.
	John Wannas,	Austrian,	Miner,	44	M	Greenwood,	Schuylkill,	Burned by explosion of gas.
26	Paul Shianek,	Austrian,	Laborer,	59	M	Coaldale,	Schuylkill,	Cars—coupling. Outside.
27	Edward Baljunas,	Slavonian,	Miner,	22	S	Coaldale,	Schuylkill,	Rush of coal.
	Michael Gallagher,	American,	Laborer,	50	M	Coaldale,	Schuylkill,	Falling. Outside.
Mar. 6	Thomas Mantz,	American,	Batteryman,	52	M	Greenwood,	Schuylkill,	Loading rock.
15	Eugene Wall,	American,	Poleman,	22	S	Rahn,	Schuylkill,	Burned by explosion of gas.
	Lenord Herring,	American,	Motorman,	20	S			
	George Barrey,	American,	Miner's laborer,	35	S			
	William Snyder,	American,	Car-runner,	21	M	Greenwood,	Schuylkill,	Carrying material up chute.
	Frank Gordon,	American,	Miner's laborer,	27	S	Rahn,	Schuylkill,	Burned by explosion of gas.
16	Albert Granger,	American,	Night-boss,	65	M	Nesquehoning,	Carbon,	Caught between car and prop.
17	George Kusko,	Slavonian,	Poleman,	18	S	Coaldale,	Schuylkill,	Caught between motor and cars.
24	Andy Hatrack,	Austrian,	Docking-boss,	53	M	Rahn,	Schuylkill,	Iron plate falling on toe. Outside.
25	Peter Krosky,	Russian,	Miner,	24	M	Rahn,	Schuylkill,	Caught between cars.
29	Benjamin Ocker,	German,	Track helper,	70	M	Nesquehoning,	Carbon,	Caught between cars.
April 14	Thomas W. Thomas,	American,	Water-tender,	40	M	Coaldale,	Schuylkill,	Lifting material. Outside.
20	William Barrett,	American,	Car-coupler,	20	S	Coaldale,	Schuylkill,	Cars—coupling. Outside.
25	Thomas Sharp,	American,	Machinist,	36	S	Lansford,	Carbon,	Slipping on piece of iron and falling. Outside.
May 3	Mike Unitis,	Russian,	Miner,	45	M	Coaldale,	Schuylkill,	Lifting timber.

TABLE 5.—Continued

Date	Name of person	Nationality	Occupation	Age	Married or single	Colliery	County	Cause of accident
May 4	Daniel Fanyan,	Italian,	Machine runner,	24	S	Rahn,	Schuylkill,	Premature blast.
	John Koysick,	Polish,	Miner,	30	M	Lansford,	Carbon,	Fall of rock.
8	Andrew Gallagher,	American,	Miner's laborer,	35	M	Lansford,	Carbon,	Coal falling from car—loading.
12	Charles Skinder,	Lithuanian,	Miner,	39	M	Coaldale,	Schuylkill,	Falling while carrying timber up chute.
19	Wash Barcello,	Czeck-Slovak.	Runner,	49	M	Greenwood,	Schuylkill,	Run over by cars. Outside.
20	August Freundt,	German,	Miner,	45	M	Nesquehoning,	Carbon,	Burned by explosion of gas.
	Joseph Logan,	Italian,	Miner,	26	M			
26	Stephen Pavlick,	Austrian,	Miner,	31	M	Lansford,	Carbon,	Derailed car.
June 3	Steve Sporack,	Austrian,	Miner,	28	M	Coaldale,	Schuylkill,	Struck by piece of falling slate.
4	George Kozar,	Russian,	Car-oiler,	36	M	Lansford,	Carbon,	Lifting car on track. Outside.
17	Andrew Kasiandra,	Slavonian,	Miner's laborer,	45	M	Coaldale,	Schuylkill,	Cut by piece of coal—infection.
	Herman Ghering,	American,	Miner,	46	M	Nesquehoning,	Carbon,	Fall of slate from roof.
18	Mike Pinkey,	Lithuanian,	Miner,	62	M	Greenwood,	Schuylkill,	Fall of coal.
19	William Hark'ns,	American,	Machinist,	21	S	Ashton Washery,	Carbon,	Struck by piece of flying steel. Outside.
21	John Lukacek,	Slavonian,	Miner,	41	M	Greenwood,	Schuylkill,	Explosion of gas.
24	Joseph Navital,	Austrian,	Miner,	40	M	Coaldale,	Schuylkill,	Fall of rock.
25	Curtis Haxton,	American,	Miner's laborer,	27	M	Greenwood,	Schuylkill,	Pushing car.
July 1	Joseph Scott,	American,	Machinist,	26	M	Lansford,	Carbon,	Caught in cog-wheel. Outside.
3	John Skok,	Austrian,	Miner's laborer,	38	M	Coaldale,	Schuylkill,	Lifting rock.
7	Martin Marenchock,	Austrian,	Miner,	33	M	Nesquehoning,	Carbon,	Burned by explosion of gas.
10	Michael Malinchoe,	Austrian,	Laborer,	17	S	Nesquehoning,	Carbon,	Falling from ladder. Outside.
14	Simon Lenchick,	Austrian,	Miner,	47	M	Greenwood,	Schuylkill,	Knee injured while working on gangway.
21	Edward Brogan,	American,	Miner,	32	M	Rahn,	Schuylkill,	Knee injured while coming down man-way.
26	Paul Baronick,	Austrian,	Laborer,	55	M	Rahn,	Schuylkill,	Squeezed between cars. Outside.
28	George Hatrick,	American,	Miner's laborer,	43	M	Greenwood,	Schuylkill,	Pushing car.
Aug. 6	James Kane,	American,	Miner's laborer,	30	M	Lansford,	Carbon,	Caught between car and pipes.
15	Frank Lore,	American,	Poleman,	22	S	Rahn,	Schuylkill,	Lifting.
23	Barney McHugh,	American,	Miner,	38	S	Lansford,	Carbon,	Piece of coal falling from top.
26	Michael Kerestas,	Austrian,	Miner,	49	W	Lansford,	Carbon,	Squeezed between cars.
	Felix Brentarie,	Austrian,	Miner,	32	M	Rahn,	Schuylkill,	Burned by gas.
Sept. 24	Ignatz Imreshick,	Austrian,	Miner's laborer,	66	M	Coaldale,	Schuylkill,	Lifting.
27	Joseph Mardosky,	Polish,	Miner,	39	S	Lansford,	Carbon,	Struck by piece of flying coal.
Oct. 4	John Wargovitch,	Slavonian,	Machinist,	26	M	Nesquehoning,	Carbon,	Finger injured by rollers. Outside.
6	John Homnick,	Slavonian,	Trackman,	53	M	Lansford,	Carbon,	Loading scrap iron. Outside.
12	Hugh McFadden,	American,	Carpenter,	49	M	Lansford,	Carbon,	Caught between cars.
14	John Dunstan,	American,	Miner,	26	M	Nesquehoning,	Carbon,	Burned by explosion of gas.
19	Charles Ruslavage,	Lithuanian,	Miner,	58	M	Rahn,	Schuylkill,	Lifting.

Nov.	12	Charles Jacquot,	French.	Miner.	54	M	Rahn.	Schuylkill.	Struck by piece of rock.
	15	Andrew Lancavage,	Austrian.	Miner,	30	M	Coaldale.	Schuylkill.	Burned by explosion of gas.
		Thomas J. Trembath.	American.	Miner.	28	M	Lansford,	Carbon,	Door falling on foot. Outside.
Nov.	16	John Malinchock,	Austrian.	Miner,	36	M	Nesquehoning.	Carbon,	Burned by explosion of gas.
		Stephen Nika,	Austrian.	Miner,	35	M	Nesquehoning,	Schuylkill.	Burned by gas.
	22	John Gysick,	Slavonian,	Machinist.	27	M	Nesquehoning,	Carbon,	Chain block slipping. Outside.
		Alvin Peterson,	American.	Laborer.	36	S	Hauto Washery.	Carbon,	Falling from car. Outside.
	25	Anthony Gardosky,	Lithuanian,	Miner.	48	M	Coaldale,	Schuylkill.	Burned by explosion of gas.
	26	Joseph Hudak.	Austrian.	Miner,	43	M	Coaldale,	Schuylkill.	Struck by piece of coal.
	29	Harry Liko.	Slavonian,	Timberman,	39	M	Lansford.	Carbon,	Heavy lifting. Outside.
Dec.	21	David Mollard,	American.	Assistant mine foreman.	44	M	Lansford.	Carbon,	Burned by explosion of gas.
	27	John Rushko,	Austrian.	Pumpman,	25	M	Lansford.	Carbon,	Iron falling on foot. Outside.
	29	Charles Herron,	American.	Laborer.	21	S	Coaldale.	Schuylkill.	Motor on gangway.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Lansford, May 4 and 5. The Board of Examiners was composed of Isaac M. Davies, Mine Inspector, E. J. Jones, Superintendent, Roy Ronemus, Miner, Nesquehoning; Neal Boyle, Miner, Lansford.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Stanley Quay Morgan, Jenkin E. Jenkins, David John Stevens, William C. Richards, David L. Willingham, Lansford; James Brennan, Albert Mullin, Walter Watkins, Nesquehoning; George W. Hughes, Coaldale; Daniel Barron, Seek; William L. Evans, Summit Hill.

ASSISTANT MINE FOREMEN

Edward Gildea, Lansford; Harry James, Albert Mullin, James H. Crossin, Nesquehoning; Thomas Bynon, Coaldale; George Edward Barron, Seek; David L. Christopher, Patrick McIntyre, Benet Cooper, Summit Hill.

1920

EIGHTEENTH DISTRICT

SCHUYLKILL COUNTY

Evan G. Evans, Inspector, Coaldale

SUMMARY OF STATISTICS

Collieries in operation (breakers),	17
Washeries in operation,	1
Mines in district,	45
Gaseous mines in operation,	26
Non-gaseous mines in operation,	19
Tons of coal shipped to market,	3,359,801
Tons used at mines for steam and heat,	397,270
Tons sold to local trade and used by employes,	62,994
Tons produced (gross),	3,820,065
Persons employed inside,	4,103
Persons employed outside,	2,624
Persons employed inside between 16 and 21 years,	216
Persons employed outside between 14 and 21 years,	644
Fatal accidents inside,	21
Fatal accidents outside,	4
Serious non-fatal accidents inside,	47
Serious non-fatal accidents outside,	19
Tons produced per fatal accident inside,	181,908
Tons produced per fatal accident inside and outside,	152,803
Persons employed per fatal accident inside,	195
Persons employed per fatal accident outside,	656
Persons employed per fatal accident inside and outside,	269
Persons employed per non-fatal accident inside,	87
Persons employed per non-fatal accident outside,	138
Persons employed per non-fatal accident inside and outside,	102
Wives made widows,	16
Children made orphans,	43
Steam locomotives inside,	1
Steam locomotives outside,	48
Compressed air locomotives inside,	8
Electric motors inside,	45
Electric motors outside,	5

Gasoline locomotives inside,	2
Gasoline locomotives outside,	1
Tubular boilers,	143
Steam engines of all classes,	222
Internal combustion engines (gas),	4
Electric dynamos,	15
Pumps of all classes,	131
Pumps delivering water to surface,	43
Air compressors,	32
Fans in use,	33
New mines opened,	2
Old mines abandoned,	2

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company,	1,756,046
Lehigh Coal and Navigation Company,	474,596
Lehigh Valley Coal Company,	340,656
Mill Creek Coal Company,	295,399
St. Clair Coal Company,	268,168
Alliance Coal Mining Company,	247,233
Maryd Coal Company,	222,345
East Lehigh Coal Company,	81,045
Port Carbon Coal Company,	55,745
Gorman and Campion Coal Company,	52,827
Bergen Coal Company,	26,005
Total,	3,820,065

Production by Counties

Schuylkill,	3,820,065

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	7	3	10	23	12	35	250,864	76,350	1,720	1,260	2,980	246	420	75	105
Lehigh Coal and Navigation Co.,	------	------	------	13	4	17	------	36,567	500	229	729	------	------	38	57
Lehigh Valley Coal Co.,	4	------	4	------	------	------	85,164	------	398	121	519	99	------	------	------
Mill Creek Coal Co.,	3	------	3	2	------	2	98,466	147,700	348	238	586	116	------	174	------
St. Clair Coal Co.,	------	------	------	3	1	4	------	89,389	385	240	625	------	------	128	240
Alliance Coal Mining Co.,	4	------	4	------	2	2	61,808	------	257	207	464	64	------	------	103
Maryd Coal Co.,	1	------	1	5	------	5	222,345	44,469	228	139	367	228	------	46	------
East Lehigh Coal Co.,	------	------	------	1	------	1	------	81,045	125	65	190	------	------	125	------
Port Carbon Coal Co.,	------	1	1	------	------	------	------	------	45	50	95	------	50	------	------
Bergen Coal Co.,	2	------	2	------	------	------	13,002	------	30	24	54	15	------	------	------
Gorman and Campion Coal Co.,	------	------	------	------	------	------	------	------	62	48	110	------	------	------	------
Hudson Coal Co.,	------	------	------	------	------	------	------	------	5	3	8	------	------	------	------
Totals and averages,	21	4	25	47	19	66	181,908	81,278	4,103	2,624	6,727	195	656	87	138

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Silver Creek,	Schuylkill.	George B. Hadesty.	Pottsville.	Leslie D. Lamont, Div. Supt., David Jones, Inside Supt., Peter Wendling, Outside Supt., William Tiley, Washery Supt.	Pottsville.	P. & R.
Eagle Hill,						
Wadesville,						
Reevesdale,						
Pine Forest,						
Schuylkill Washery,						
Lehigh Coal and Navigation Co.						
Tamaqua,	Schuylkill.	W. G. Whildin, Manager.	Lansford.	F. B. Nold.	Lansford.	L. & N. E.
Lehigh Valley Coal Co.						
Buck Mountain,	Schuylkill.	Thomas Thomas.	Wilkes-Barre.	John W. Price.	Mahanoy City.	Lehigh Valley.
Mill Creek Coal Co.						
Morea,	Schuylkill.	J. E. Jones, General Manager.	New Boston.	William Thomas, Inside Supt., Frank Patterson, Outside Supt.,	Morea.	P. & R.; L. V.
Middle Lehigh,					New Boston.	
Wolf Creek,						
St. Clair Coal Co.						
St. Clair,	Schuylkill.	Harold M. Smith.	St. Clair.			P. & R.
Alliance Coal Mining Co.						
Alliance,	Schuylkill.	J. B. Warriner, Manager.	Hazleton.	D. C. Helms.	Kaska.	P. & R.
Maryd Coal Co.						
Maryd,	Schuylkill.	George P. Troutman	Hazleton.	D. S. Wolf.	Maryd.	P. & R.; C. R. R. of N. J.
East Lehigh Coal Co.						
East Lehigh,	Schuylkill.	E. M. B. Shepp.	Tamaqua.	E. M. B. Shepp.	Tamaqua.	L. & N. E.; P. & R.
Port Carbon Coal Co.						
Lucy R.	Schuylkill.	H. D. Johnson, General Manager.	Pottsville.	D. P. Pace.	Pottsville.	P. & R.
Gorman and Campion Coal Co.						
Bell,	Schuylkill.	Daniel J. Slattery.	Tuscarora.	Daniel J. Slattery.	Tuscarora.	P. & R.

Bergen Coal Co. Bergen,	Schuylkill,	Thomas D. Bergen,	Pottsville,	Thomas D. Bergen,	Pottsville,	P. & R.
Hudson Coal Co. Milford,	Schuylkill,	Charles Wagner,	Pottsville,			P. & R.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross ton)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Silver Creek,	Schuylkill,	463,684	41,161	5,545	510,390	275	842	3	5		261,965	25
Eagle Hill,	Schuylkill,	252,617	59,868	9,464	321,949	269	730	3	16		110,315	22,725
Wadesville,	Schuylkill,	229,481	54,803	11,601	295,885	275	846	3	11		25,930	104,140
Reevesdale,	Schuylkill,	217,136	8,970	7	226,113	275	209		2		21,889	6,398
Pine Forest,	Schuylkill,	226,511	11,296	8	237,815	290	141		1		1,950	1,750
		1,389,429	176,098	26,625	1,592,152		2,818	9	35		422,049	135,038
Schuylkill Washery,	Schuylkill,	160,969	2,925		163,894	234	162	1			300	325
Totals,		1,550,398	179,023	26,625	1,756,046		2,980	10	35		422,349	135,363
Lehigh Coal and Navigation Co.												
Tamaqua,	Schuylkill,	408,562	55,477	10,557	474,596	280	729		17	44,700	206,450	43,375
Lehigh Valley Coal Co.												
Buck Mountain,	Schuylkill,	305,769	33,810	1,077	340,656	274	519	4		2,650	14,366	196,962
Mill Creek Coal Co.												
Morea,	Schuylkill,	173,514	2,291	1,259	177,064	276	311	2	1		86,840	
Middle Lehigh,	Schuylkill,	51,143	23,106	653	74,902	253	186	1		1,800	23,247	
Wolf Creek,	Schuylkill,	39,459	3,974		43,433	258	89		1	1,150	44,889	
Totals,		264,116	29,371	1,912	295,399		586	3	2	2,950	154,976	
St. Clair Coal Co.												
St. Clair,	Schuylkill,	246,518	18,000	3,650	268,168	282	625		4	112,600	114,418	
Alliance Coal Mining Co.												
Alliance,	Schuylkill,	218,404	27,629	1,200	247,233	278	464	4	2		42,000	36,000

Maryd Coal Co.												
Maryd,	Schuylkill,	174,150	45,795	2,400	222,345	244	367	1	5			113,715
East Lehigh Coal Co.												
East Lehigh,	Schuylkill,	68,284	3,835	8,926	81,045	269	190		1		46,150	3,825
Port Carbon Coal Co.												
Lucy R,	Schuylkill,	55,124	580	41	55,745	237	95	1			5,850	900
Gorman and Campion Coal Co.												
Bell,	Schuylkill,	48,242	3,000	1,585	52,827	273	110					20,000
Bergen Coal Co.												
Bergen,	Schuylkill,	20,234	750	5,021	26,005	285	54	2			200	13,000
Hudson Coal Co.												
Milford*,	Schuylkill,						8					
Grand totals,		3,359,801	397,270	62,994	3,820,065		6,727	25	66	162,900	1,006,759	563,140

*Old operation being reopened.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	----	--------	59	9,070	133	20,626	----	--------	12	2,140	46	23,604	7	3,324	193	----	14	4	12	12	10,133
Lehigh Coal and Navigation Co.,	Schuylkill,	----	--------	10	2,700	9	4,565	----	--------	1	200	5	5,400	4	1,600	15	----	4	----	10	3	3,795
Lehigh Valley Coal Co.,	Schuylkill,	----	--------	7	2,100	20	6,450	----	--------	1	13	14	12,800	3	4,000	79	----	5	4	----	3	1,690
Mill Creek Coal Co.,	Schuylkill,	----	--------	21	3,240	16	2,125	----	--------	----	--------	24	31,950	13	4,200	64	----	6	----	7	4	1,550
St. Clair Coal Co.,	Schuylkill,	----	--------	10	1,510	3	850	2	10	----	--------	16	14,700	7	3,900	28	----	14	----	8	2	900
Alliance Coal Mining Co.,	Schuylkill,	----	--------	16	1,800	13	2,000	2	8	----	--------	13	15,000	2	3,000	13	----	5	----	5	4	1,500
Maryd Coal Co.,	Schuylkill,	----	--------	12	2,100	17	2,500	----	--------	----	--------	7	10,900	4	2,000	36	2	1	---	3	3	3,500
East Lehigh Coal Co.,	Schuylkill,	----	--------	2	500	3	207	----	--------	----	--------	4	3,600	3	2,800	17	----	----	----	2	----	--------
Port Carbon Coal Co.,	Schuylkill,	----	--------	2	75	----	--------	----	--------	1	22	----	--------	----	--------	9	1	----	----	3	1	350
Gorman and Campion Coal Co.,	Schuylkill,	----	--------	2	300	5	200	----	--------	----	--------	----	--------	----	X	10	----	----	----	----	----	--------
Bergen Coal Co.,	Schuylkill,	----	--------	2	90	3	90	----	--------	----	--------	2	100	----	--------	4	----	----	----	----	----	--------
Hudson Coal Co.,	Schuylkill,	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	----	--------	2	----	----	----	----	----	--------
Totals,	----------	----	--------	143	23,485	222	39,613	4	18	15	2,375	131	118,054	43	24,824	470	3	49	8	50	32	23,418

X Water Level.

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	8	32	------	794	64	------	------	3	------	111	25	47	158	5	------	------	473	1,720
Lehigh Coal and Navigation Co.,		3	3	8	193	21	------	------	14	11	11	8	7	75	------	5	5	136	500
Lehigh Valley Coal Co.,		2	14	------	276	32	------	------	------	------	25	13	6	3	3	------	7	17	398
Mill Creek Coal Co.,		3	2	6	190	36	------	------	7	7	19	10	4	17	15	2	1	29	348
St. Clair Coal Co.,		2	------	8	210	36	------	------	9	12	12	4	3	4	9	1	8	67	385
Alliance Coal Mining Co.,		1	------	2	130	90	------	------	3	3	10	2	3	6	4	2	1	------	257
Maryd Coal Co.,		1	1	7	135	8	------	------	4	1	20	2	5	11	6	------	2	25	228
East Lehigh Coal Co.,		1	1	1	50	17	------	------	2	2	8	2	1	8	4	1	3	24	125
Port Carbon Coal Co.,		1	------	2	18	1	------	------	4	2	3	------	------	------	------	1	------	13	45
Gorman and Campion Coal Co.,		1	1	------	39	2	------	------	------	------	7	1	------	2	------	------	1	8	62
Bergen Coal Co.,		1	------	------	20	------	------	------	------	------	4	1	1	3	------	------	------	------	30
Hudson Coal Co.,		1	------	------	2	2	------	------	------	------	------	------	------	------	------	------	------	------	5
Totals,		25	54	34	2,057	309	------	------	46	38	230	68	77	287	46	12	28	792	4,103

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill.	--------	6	9	49	135	17	19	35	66	18	906	1,260	2,980
Lehigh Coal and Navigation Co.,		2	3	6	9	33	17	4	20	--------	6	129	229	729
Lehigh Valley Coal Co.,		--------	1	5	13	23	2	2	5	--------	3	67	121	519
Mill Creek Coal Co.,		3	4	4	12	28	2	--------	12	13	4	157	238	586
St. Clair Coal Co.,		1	3	4	11	22	7	2	12	10	4	164	240	625
Alliance Coal Mining Co.,		1	1	3	12	22	--------	7	16	16	5	124	207	464
Maryd Coal Co.,		1	2	3	8	28	1	2	20	--------	5	69	139	367
East Lehigh Coal Co.,		1	1	1	1	4	1	--------	7	--------	10	39	65	190
Port Carbon Coal Co.,		1	1	1	12	3	2	--------	5	--------	--------	25	50	95
Gorman and Campion Coal Co.,		1	1	1	2	3	1	1	4	1	2	31	48	116
Bergen Coal Co.,		--------	1	--------	1	2	1	--------	4	--------	--------	15	24	54
Hudson Coal Co.,		1	--------	--------	--------	--------	--------	--------	--------	--------	--------	2	3	8
Totals,	--------	11	24	37	130	303	51	37	140	106	57	1,728	2,624	6,727

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	26	23	27	23	24	22	21	26	11	25	24	25	277
Lehigh Coal and Navigation Co.,		25	24	27	22	25	24	26	24	10	25	22	26	280
Lehigh Valley Coal Co.,		26	22	26	21	23	23	26	25	10	25	22	25	274
Mill Creek Coal Co.,		26	11	22	23	25	25	25	25	10	22	22	26	262
St. Clair Coal Co.,		25	23	27	23	25	24	26	25	10	25	23	26	282
Alliance Coal Mining Co.,		23	22	27	25	25	26	26	26	9	25	23	21	278
Maryd Coal Co.,		23	20	19	19	21	21	24	21	10	24	20	22	244
East Lehigh Coal Co.,		26	18	26	17	25	25	26	25	10	24	22	25	269
Port Carbon Coal Co.,		22	19	26	8	24	18	25	26	13	24	19	13	237
Gorman and Campion Coal Co.,		26	23	25	22	24	19	27	25	10	25	22	25	273
Bergen Coal Co.,		25	21	26	26	26	26	26	26	11	24	23	25	285

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 10	Charles Kershonas,	Lithuanian,	Miner,	32	M	1	3	Silver Creek,		Blast at face of gangway. Cut fuse too short.
16	Bartholomew McDonald	American,	Miner,	45	M	1	4			Falling down shaft in bucket. A sheave wheel became loose in the head frame in the shaft and fell down on the bucket, breaking off the handles and causing bucket to fall to bottom of shaft.
	William McNeeley,	American,	Miner,	46	M	1	2	Alliance,		
	Charles Paul,	American,	Miner,	32	S					
	Peter Niadna,	American,	Laborer,	22	S					
19	John Motsney, Sr.,	Russian,	Laborer,	51	M	1		Buck Mountain		Run over by locomotive on turnout.
26	Lester Boneberger,	American,	Laborer,	18	S			Silver Creek,		Strained while trying to hold back trip of cars on grade. Outside.
Feb. 11	Joseph Weishnes,	Lithuanian,	Miner,	38	S			Buck Mountain		Fall of top slate at face of gangway.
13	Harvey Perry,	American,	Slope footman,	42	M	1	4	Buck Mountain		Caught by car on slope—rerailing cars.
23	William Switchock,	Polish,	Miner,	28	M	1	1	Morea,		Fall of roof in old breast.
Mar. 27	John Decentus,	Italian,	Laborer,	26	S			Maryd,		Falling down shaft.
May 4	George Covitch,	Slavonian,	Laborer,	52	S			Eagle Hill,		Thrown under car he was unloading, when locomotive ran into it. Outside.
8	Michael Gahan,	American,	Miner,	45	M	1	2	Eagle Hill,	Schuylkill,	Fall of rock in breast while robbing pillars.
22	William Yelch,	American,	Laborer,	18	S			Schuylkill Washery,		Runaway car. Outside.
June 12	Anthony Wassel,	Lithuanian,	Miner,	33	M	1	3	Buck Mountain		Burned by explosion of gas on gangway ignited by open light.
19	Andrew Cordish,	Polish,	Miner,	43	M	1	3	Middle Lehigh,		Delayed blast on gangway.
July 10	Samuel P. Ray,	American,	Assistant mine foreman,	44	M	1	6	Wadesville,		Falling down chute with rush of coal.
Aug. 24	John Kepsia,	Slavonian,	Miner,	36	M	1	4	Wadesville,		Caught by car running down slope-fired shot in heading and came out to slope for safety.
	Andrew Petell,	Slavonian,	Miner,	40	M	1				
Oct. 28	Paul Vinonsky,	Slavonian,	Miner,	35	M	1	5	Bergen,		Fall of roof while robbing pillars.
	Anthony Lednock,	Slavonian,	Miner,	30	M	1				
Nov. 9	Peter Olesheski,	Lithuanian,	Laborer,	26	S			Morea,		Pinned by rail against timber while sitting on the side of turnout. Rail caught by motor and pushed ahead
Dec. 14	Joseph Casper,	Lithuanian,	Miner,	35	M	1	2	Silver Creek,		Rush of coal in chute while robbing pillars.
27	Frederick Giordiana,	Italian,	Slatepicker,	16	S			Lucy R,		Caught in revolving shaft. Outside.
30	Mike Sacosky,	Polish,	Miner,	39	M	1	4	Eagle Hill,		Burned by explosion of gas in pillar work.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 14	John Katuja,	Polish,	Miner,	36	S	Eagle Hill,		Burned by explosion of gas.
	Stine Walick,	Polish,	Miner,	42	S			
	Joseph Wixted,	American,	Loader,	32	S	Eagle Hill,		Falling off mine car. Outside.
Feb. 10	Mike Skubbish,	Polish,	Miner,	31	M	Wadesville,		Carrying timber.
11	Walter Yemm,	English,	Miner,	46	M	Tamaqua,		Fall of coal in pillar work.
	Andrew Petelanskie,	American,	Driver,	18	S	St. Clair,		Tramped upon by mule.
	Norman Erbe,	American,	Driver,	18	S	Tamaqua,		Pushing car.
13	Alex Bitsko,	Slavonian,	Laborer,	58	M	Tamaqua,		Caught by pinch bar while pinching car. Outside.
15	Cerial Costlansky,	American,	Laborer,	41	M	Tamaqua,		Lifting mine car. Outside.
21	John Ambrosavage,	Lithuanian,	Miner,	36	M	Silver Creek,		Burned by explosion of gas.
22	William Geiger,	American,	Carpenter,	25	M	Wadesville,		Struck by falling partition. Outside.
23	Samuel Murphy,	American,	Miner,	37	M	Tamaqua,		Falling down chute.
28	Charles Lookingbill,	American,	Miner's laborer,	44	M	Wadesville,		Struck by falling ice in shaft.
March 3	Karl Neuman,	American,	Battery starter,	28	M	Tamaqua,		Slipping while loading car.
16	Adam Yonconiss,	Lithuanian,	Miner,	43	M	Wadesville,		Struck by lump of coal.
18	Joseph Steppen,	Lithuanian,	Miner,	52	M	Wadesville,		Struck by falling prop.
20	Lew Rutko,	Polish,	Miner,	36	M	Eagle Hill,		Burned by explosion of gas.
30	Jos. Deangelo,	Italian,	Laborer,	37	M	Tamaqua,		Knocked under locomotive. Outside.
	Wes Griffiths,	American,	Miner's laborer,	28	S	Wadesville,		Burned by explosion of gas.
	Joseph Zogaise,	Lithuanian,	Miner,	38	S	Tamaqua,	Schuylkill,	Cut by axe.
31	Frank Kilchefsky,	Russian,	Miner,	45	M	Maryd,		Burned by explosion of gas.
	John Burcousky,	Russian,	Miner,	35	M			
April 9	Mike Licko,	Slavonian,	Miner,	37	M	St. Clair,		Fall of rock.
14	Peter Roman,	Austrian,	Laborer,	55	S	Alliance,		Struck by piece of rock rolling down bank. Outside.
May 4	Alex Wa-sel,	Russian,	Miner,	33	M	Tamaqua,		Caught by piece of falling rock in battery.
5	Stiney Malaschofsky,	Russian,	Miner,	29	M	Tamaqua,		Falling under passing trip of cars.
19	John Keipe,	American,	Miner,	44	M	Tamaqua,		Struck by piece of rock.
June 5	Matthew Surdock,	Russian,	Miner,	44	M	Maryd,		Fall of coal in breast.
15	Frank Kroll,	Polish,	Miner,	31	M	Eagle Hill,		Fall of coal in breast.
22	John Pavalko,	Slavonian,	Miner,	33	M	Eagle Hill,		Burned by explosion of gas.
July 7	Alex Chesonis,	Lithuanian,	Miner,	40	M	Eagle Hill,		Fall of coal in breast.
21	Chas. Winnefskie,	Lithuanian,	Miner,	23	S	Silver Creek,		Fall of rock.
27	John Kunish,	American,	Laborer,	19	S	St. Clair,		Thumb lacerated by saw. Outside.
29	John Lawson,	American,	Laborer,	18	S	Reevesdale,		Squeezed between cars. Outside.
Aug. 4	John Marinchock,	American,	Laborer,	17	S	Eagle Hill,		Bumped between cars. Outside.
5	Clyde Lebengood,	American,	Laborer,	16	S	Eagle Hill,		Struck by flying tooth from circular saw. Outside.

TABLE 5.—Continued.

Date		Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Aug.	7	Nicholas Bacch,	Italian,	Miner,	32	M.	Maryd,		Burned by explosion of gas.
	14	James Benson,	Swedish,	Laborer,	62	M.	Tamaqua,		Falling from chute. Outside.
	15	Charles Carrol,	American,	Breaker boss,	32	M.	Eagle Hill,		Slipped and caught in wheel. Outside.
	16	Joseph Corby,	American,	Jig runner,	18	S.	Wadesville,		Falling into jig. Outside.
Aug.	17	John Bolick,	Slavonian,	Miner,	53	M.	St. Clair,		Fall of top slate.
	20	Reatis Rustin,	American,	Carpenter,	36	M.	Eagle Hill,		Carrying piece of shafting. Outside.
Sept.	21	Roscoe Smith,	American,	Driver,	47	M.	Wadesville,		Falling under mine car.
	28	John Holohan,	American,	Blacksmith,	52	M.	Silver Creek,		Struck by flying steel while cutting tee rail. Outside.
	30	William Bankus,	Polish,	Miner,	48	M.	Eagle Hill,		Burned by explosion of gas.
Oct.	6	Anthony Walacavage,	Lithuanian,	Miner,	48	S.	Eagle Hill,		Caught by blast while drilling out missed hole.
	7	Joseph Mateo,	Italian,	Miner,	38	M.	East Lehigh,	Schuylkill,	Falling down chute.
	12	John Tomolavage,	Lithuanian,	Miner,	32	M.	Silver Creek,		Fall of rock.
	13	Charles Wazales,	Lithuanian,	Miner,	24	M.	Wadesville,		Caught between mine car and plank.
	27	Joseph Zugsda,	Lithuanian,	Miner's laborer,	59	M.	Silver Creek,		Piece of falling rock.
Nov.	6	Carlo Bombay,	Italian,	Miner,	27	S.	Morea,		Slide of rock in chute.
	13	Alex Buchinsky,	Polish,	Miner,	44	M.	Eagle Hill,		Burned by explosion of gas.
		Clarence Trout,	American,	Laborer,	22	M.	Pine Forest,		Caught in scraper line. Outside.
		Robert Eltringham,	American,	Motorman,	24	S.	Tamaqua,		Bumped against car.
	15	John Philanofsky,	Polish,	Miner,	44	M.	Wadesville,		Knocked down chute by falling prop.
	18	Charles Ueofsky,	Austrian,	Miner,	33	M.	Tamaqua,		Bumped by car.
	19	George Miller,	German,	Carpenter,	66	M.	Eagle Hill,		Bumped between mine cars. Outside.
	20	William O'Connel,	American,	Machinist,	56	M.	Alliance,		Caught in gears of drill press. Outside.
Dec.	4	George Martin,	Lithuanian,	Miner,	63	M.	Tamaqua,		Struck by flying coal.
	6	John Shekora,	Polish,	Miner's laborer,	50	M.	Wolf Creek,		Fall of coal in breast.
	7	John Russavage,	Lithuanian,	Miner,	30	M.	Wadesville,		Burned by explosion of gas.
	16	William Aiken,	American,	Loader,	43	W.	Reevesdale,		Struck by brake stick. Outside.
		Joseph Valentine,	Russian,	Miner,	32	M.	Tamaqua,		Burned by explosion of gas.
	18	John James Krapf,	American,	Door boy,	17	S.	Tamaqua,		Caught in motor.
	20	James Walsh,	American,	Gang foreman,	47	M.	Maryd,		Struck by falling pump—chain broke.
	30	William Smalansky,	Lithuanian,	Miner,	49	M.	Eagle Hill,		Burned by explosion of gas.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Tamaqua, May 4 and 5. The Board of Examiners was composed of E. G. Evans, Mine Inspector, Coaldale; Philip Maue, Superintendent, Maryd; William J. Brennan, Miner, Port Carbon; Thomas Troutman, Miner, New Philadelphia.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Edward G. Nolter, Thomas R. Smith, Stephen J. Connors, Joseph V. Flearl, Mahanoy City; William F. Doyle, Francis J. Brady, Charles J. Gallagher, Silver Creek; Howard N. Greenawalt, Tamaqua; Michael Knezo, Thomas H. Childs, John G. Samuels, St. Clair.

ASSISTANT MINE FOREMEN

Christ Erbe, John Lloyd, Tamaqua; Thomas Colan, New Philadelphia; Thomas Doyle, James Edwards, Silver Creek; Harry Gay, Patrick L. Tobin, Cumbola; George Hirko, Fred Stevens, Buck Mountain; Ulric Kreitzer, Frackville; Albert Clocker, Evan Reese, St. Clair; Henry J. Weicker, Maryd.

1920

NINETEENTH DISTRICT

SCHUYLKILL COUNTY

M. J. Brennan, Inspector, Pottsville

SUMMARY OF STATISTICS

Collieries in operation (breakers),	12
Washeries in operation,	5
Mines in district,	30
Gaseous mines in operation,	21
Non-gaseous mines in operation,	9
Tons of coal shipped to market,	2,015,355
Tons used at mines for steam and heat,	408,375
Tons sold to local trade and used by employes,	28,358
Tons produced (gross),	2,452,088
Persons employed inside,	2,635
Persons employed outside,	1,811
Persons employed inside between 16 and 21 years,	133
Persons employed outside between 14 and 21 years,	428
Fatal accidents inside,	12
Fatal accidents outside,	5
Serious non-fatal accidents inside,	45
Serious non-fatal accidents outside,	23
Tons produced per fatal accident inside,	204,341
Tons produced per fatal accident inside and outside,	144,240
Persons employed per fatal accident inside,	220
Persons employed per fatal accident outside,	362
Persons employed per fatal accident inside and outside,	262
Persons employed per non-fatal accident inside,	59
Persons employed per non-fatal accident outside,	79
Persons employed per non-fatal accident inside and outside,	65
Wives made widows,	8
Children made orphans,	21
Steam locomotives inside,	1
Steam locomotives outside,	20
Compressed air locomotives inside,	3
Electric motors inside,	19

Electric motors outside,	11
Gasoline locomotives outside,	1
Cylindrical boilers,	3
Tubular boilers,	107
Steam engines of all classes,	267
Internal combustion engines (gas),	1
Electric dynamos,	19
Pumps of all classes,	143
Pumps delivering water to surface,	31
Air compressors,	18
Fans in use,	29

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company,	1,166,979
Lytle Coal Company,	348,568
Pine Hill Coal Company,	248,094
Buck Run Coal Company,	216,659
Darkwater Coal Company,	180,755
Oak Hill Coal Company,	160,251
Inter-City Fuel Company, Incorporated,	53,483
Sherman Coal Corporation,	24,334
C. N. Blanchard,	22,004
Norwegian Coal Company,	15,818
Black Heath Coal Company,	10,100
Butcher Creek Coal Company,	5,043
Total,	2,452,088

Production by Counties

Schuylkill,	2,452,088

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Em-ployes inside	Em-ployes outside	Total number of em-ployes	Em-ployes inside per fatal accident	Em-ployes outside per fatal accident	Em-ployes inside per non-fatal accident	Em-ployes outside per non-fatal accident
	In-side	Out-side	To-tal	In-side	Out-side	To-tal									
Philadelphia and Reading Coal and Iron Co.,	4	3	7	26	14	40	291,745	44,884	1,165	878	2,043	291	293	45	63
Lytle Coal Co.,	2	------	2	1	2	6	174,284	87,142	380	248	628	190	----------	95	124
Pine Hill Coal Co.,	2	1	3	3	4	7	124,047	82,698	390	189	579	195	189	130	47
Buck Run Coal Co.,	2	------	2	1	1	2	108,330	216,659	298	117	415	149	----------	298	117
Darkwater Coal Co.,	------	1	1	2	1	3	----------	90,378	183	142	325	----------	142	92	142
Oak Hill Coal Co.,	2	------	2	9	1	10	80,126	17,806	172	122	294	86	----------	19	122
Other Operators—No accidents,	------	------	------	------	------	------	----------	----------	47	115	162	----------	----------	----------	----------
Totals and averages,	12	5	17	45	23	68	204,341	54,491	2,635	1,811	4,446	220	362	59	79

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Otto,	Schuylkill,	E. E. Kaercher,	Pottsville,	E. J. Weimer, Division Supt. Chas. Gallagher, Inside District Supt. John Paul, Outside Dist. Supt.	Minersville,	P. & R.
Phoenix Park,						
John Veith,						
Glendower,						
Pine Knot,						
Thomaston,						
Anchor Washery,						
Lytle Coal Co.						
Lytle,	Schuylkill,	R. A. Quin,	Wilkes-Barre,	W. W. Williams,	Minersville,	Penna.; P. & R.
Lytle Washery,						
Pine Hill Coal Co.						
Pine Hill,	Schuylkill,	C. H. Strange,	Minersville,	C. H. Strange,	Minersville,	Pennsylvania
Buck Run Coal Co.						
Buck Run,	Schuylkill,	James B. Neale,	Minersville,	George Conway,	Minersville,	P. & R.
Darkwater Coal Co.						
New Castle,	Schuylkill,	James B. Neale,	Minersville,	B. H. Hay,	Minersville,	Pennsylvania
Ellsworth,						
Oak Hill Coal Co.						
Oak Hill,	Schuylkill,	William H. Grady,	Minersville,	William H. Grady,	Minersville,	P. & R.
Inter-City Fuel Co., Inc.,						
Wolf Creek Washery,	Schuylkill,	P. W. Coffield,	Allentown,	Thomas Delahanty,	Girardville,	P. & R.
Sherman Coal Corporation.						
Sherman,	Schuylkill,	Clyde R. Dunkle,	Pottsville,	William E. Reigle,	Pottsville,	Wagon haul
C. N. Blanchard.						
Silverton Washery,	Schuylkill,	W. Grier Parke,	Pottsville,			P. & R.
Norwegian Coal Co.						
Norwegian Washery,	Schuylkill,	D. L. Griffiths,	Pottsville,			P. & R.
Black Heath Coal Co.						
Black Heath,	Schuylkill,	James G. Scott,	Minersville,			Wagon haul

Butcher Creek Coal Co. Laurel Run,	Schuylkill,	L. J. Whlms,	St. Clair.			P. & R.
White and Co. Howard***	Schuylkill,					

***Abandoned.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Otto,	Schuylkill,	204,060	88,200	2,026	294,286	280	536	1	9	----------	31,605	44,400
Phoenix Park,	Schuylkill,	174,492	52,574	2,216	229,282	278	433	3	11	----------	8,445	80,017
John Veith*,	Schuylkill,	32,735	----------	----------	32,735	280*	88	----------	2	----------	175	9,250
Glendower,	Schuylkill,	148,535	19,990	----------	168,525	275	327	1	4	25	60,291	5,038
Pine Knot,	Schuylkill,	219,875	51,792	11,414	283,081	275	463	1	9	----------	80,475	49,850
Thomaston†,	Schuylkill,	----------	20,313	----------	20,313	275†	124	1	3	----------	----------	----------
		779,697	232,869	15,656	1,028,222	----------	1,971	7	38	25	180,991	188,555
Anchor Washery,		113,665	25,092	----------	138,757	266	72	----------	2	----------	2,571	----------
Totals,		893,362	257,961	15,656	1,166,979	----------	2,043	7	40	25	183,562	188,555
Lytle Coal Co.												
Lytle,	Schuylkill,	225,944	43,512	5,446	274,902	268	598	2	6	----------	34,697	75,632
Lytle Washery,	Schuylkill,	70,464	3,202	----------	73,666	277	30	----------	----------	----------	----------	----------
Totals,		296,408	46,714	5,446	348,568	----------	628	2	6	----------	34,697	75,632
Pine Hill Coal Co.												
Pine Hill,	Schuylkill,	202,772	43,800	1,522	248,094	275	579	3	7	----------	24,800	79,350
Buck Run Coal Co.												
Buck Run,	Schuylkill,	185,903	28,300	2,456	216,659	272	415	2	2	----------	70,597	40,177
Darkwater Coal Co.												
New Castle,	Schuylkill,	160,101	19,000	1,654	180,755	280	325	1	3	----------	51,476	25
Ellsworth,	Schuylkill,											

*Coal prepared at Otto breaker.
†Coal prepared at Pine Knot breaker.

Oak Hill Coal Co. Oak Hill,	Schuylkill,	149,726	9,600	925	160,251	275	294	2	10		34,525	39,075	
Inter-City Fuel Co., Inc. Wolf Creek Washery,	Schuylkill,	53,370		113	53,483	277	42						
Sherman Coal Corporation Sherman,	Schuylkill,	24,148		186	24,334	269	45				4,836	1,672	
C. N. Blanchard. Silverton Washery,	Schuylkill,	22,004			22,004	220	36					600	
Norwegian Coal Co. Norwegian Washery,	Schuylkill,	14,718	1,000	100	15,818	125	11						
Black Heath Coal Co. Black Heath,	Schuylkill,	9,300	500	300	10,100	264	16				2,000		
Butcher Creek Coal Co. Laurel Run,	Schuylkill,	3,543	1,500		5,043	197	12					500	
Grand totals,		2,015,355	408,375	28,358	2,452,088		4,446	17	68	25	406,493	425,586	

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Schuylkill.	----	--------	54	10,240	184	23,194	----	--------	10	1,434	91	56,169	14	10,153	216	----	14	3	11	7	9,423
Lytle Coal Co.,		----	--------	29	4,200	15	4,225	----	--------	2	1,000	7	8,200	1	3,000	50	----	1	----	4	1	1,200
Pine Hill Coal Co.,		----	--------	4	3,000	24	2,370	----	--------	2	395	15	8,304	3	7,000	32	----	----	----	7	2	550
Buck Run Coal Co.,		----	--------	9	1,800	10	750	----	--------	2	310	13	11,000	3	800	20	----	1	----	6	2	1,600
Darkwater Coal Co.,		----	--------	4	1,400	24	1,045	----	--------	3	950	7	8,000	6	3,350	20	----	1	----	2	3	440
Oak Hill Coal Co.,		----	--------	2	1,000	2	800	----	--------	----	--------	4	4,000	1	1,000	42	----	4	----	----	3	750
Inter-City Fuel Co., Inc.,		----	--------	1	80	----	--------	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Sherman Coal Corporation		----	--------	----	--------	----	--------	----	--------	----	--------	1	50	1	50	3	----	----	----	----	----	--------
C. N. Blanchard,		2	110	----	--------	----	--------	1	6.5	----	--------	3	1,655	----	--------	----	1	----	----	----	----	--------
Norweglan Coal Co.,		1	150	----	--------	4	75	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Black Heath Coal Co.,		----	--------	1	120	2	60	----	--------	----	--------	----	--------	----	--------	3	----	----	----	----	----	--------
Butcher Creek Coal Co.,		----	--------	3	280	2	120	----	--------	----	--------	2	700	2	500	2	----	----	----	----	----	--------
Totals,	----------	3	260	107	22,120	267	32,639	1	6.5	19	4,089	143	98,078	31	25,853	388	1	21	3	30	18	13,963

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	7	42	------	302	49	------	------	4	------	76	18	46	40	26	------	3	552	1,165
Lytle Coal Co.,		1	3	9	173	19	------	------	4	3	26	2	------	45	6	2	1	86	380
Pine Hill Coal Co.,		1	3	6	144	121	------	------	6	6	34	6	8	33	9	3	2	8	390
Buck Run Coal Co.,		1	1	7	127	36	------	------	7	7	13	5	------	7	6	1	3	77	258
Darkwater Coal Co.,		1	------	4	68	12	------	------	2	2	14	7	------	5	5	1	3	59	183
Oak Hill Coal Co.,		1	2	6	59	32	------	------	------	------	19	3	6	11	4	2	2	25	172
Inter-City Fuel Co., Inc.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Sherman Coal Corporation,		1	------	1	11	9	------	------	------	------	2	------	1	------	------	------	------	------	25
C. N. Blanchard,		1	------	------	1	3	------	------	------	------	------	------	------	------	------	------	------	------	5
Norwegian Coal Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Black Heath Coal Co.,		1	------	------	6	2	------	------	------	------	2	------	------	------	------	------	------	------	11
Butcher Creek Coal Co.,		1	------	------	1	2	------	------	------	------	1	------	------	------	1	------	------	------	6
Totals,		16	51	33	892	285	------	------	23	18	187	41	61	141	57	9	14	807	2,635

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Tracklmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	------	6	13	38	154	3	13	34	41	14	562	878	2,043
Lytle Coal Co.,		1	2	2	8	54	4	------	29	3	12	133	248	628
Pine Hill Coal Co.,		1	1	5	10	26	9	2	36	9	11	79	189	579
Buck Run Coal Co.,		1	1	1	3	17	1	------	9	------	3	81	117	415
Darkwater Coal Co.,		1	1	2	6	17	1	2	19	------	------	93	142	325
Oak Hill Coal Co.,		1	1	2	9	12	4	2	4	6	7	74	122	294
Inter-City Fuel Co., Inc.,		1	1	1	1	------	1	------	2	------	1	34	42	42
Sherman Coal Corporation,		------	1	1	------	------	------	------	2	------	------	16	20	45
C. N. Blanchard,		1	1	------	5	6	1	------	7	------	1	9	31	36
Norwegian Coal Co.,		------	1	------	------	2	------	------	1	------	------	7	11	11
Black Heath Coal Co.,		1	------	------	------	1	------	------	------	3	------	------	5	16
Butcher Creek Coal Co.,		1	1	1	------	1	------	------	------	------	2	------	6	12
Totals,		9	17	28	80	290	24	19	143	62	51	1,088	1,811	4,446

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.	Schuylkill.	26	22	26	23	24	22	25	25	11	25	23	25	277
Lytle Coal Co..		24	23	21	19	24	22	26	24	12	25	23	25	268
Pine Hill Coal Co..		25	23	24	21	24	23	26	25	11	25	23	25	275
Buck Run Coal Co..		26	22	19	24	24	25	25	24	11	25	23	24	272
Darkwater Coal Co..		24	24	27	22	24	24	26	25	10	25	23	26	280
Oak Hill Coal Co..		25	23	26	21	23	25	26	25	10	25	22	24	275
Sherman Coal Corporation.		23	23	23	21	25	24	25	24	8	26	23	24	269
Black Heath Coal Co..		22	19	23	23	22	23	22	23	23	20	22	22	264
Butcher Creek Coal Co..		19	13	15	13	23	24	7	8	8	17	24	26	197

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 10	William B. Thomas,	American,	Repairman,	35	S.			Otto,		Burned by explosion of gas on gangway.
12	Bruno Tassone,	American,	Slatepicker,	17	S.			New Castle,		Falling under cars. Outside.
Feb. 13	Peter Mysek,	Russian,	Miner,	29	M.	1		Lytle,		Rush of wind from fall of roof on gangway.
23	Joseph Kerdesky,	Polish,	Miner,	35	M.	1	2	Pine Hill,		Burned by explosion of gas at pillar work.
	John Zadrozie,	Polish,	Miner,	32	M.	1	3			
27	John O'Neal,	American,	Bottomman,	19	S.			Lytle,		Derailed motor on gangway.
March 4	Joseph Mickoshifsky,	Polish,	Doortender,	50	M.	1	3	Oak Hill,		Caught between car and door on gangway.
11	John Krozune,	Italian,	Miner,	58	W.			Oak Hill,		Fall of rock at face of breast.
24	Stiney Evanowsky,	Lithuanian,	Miner,	54	M.	1		Glendower,		Burned by explosion of gas at pillar work.
30	Frank Horick,	Slavonian,	Timber cutter,	54	M.	1	4	Phoenix Park,	Schuylkill,	Struck by rolling log in timber yard. Outside.
April 17	Joseph Pidgeon,	Italian,	Miner,	33	S.			Phoenix Park,		Fall of coal from side of gangway.
June 4	Mike Sokol,	Slavonian,	Fireman,	35	S.			Pine Hill,		Scalded in boiler house. Outside.
Aug. 9	Anthony Gasda,	Polish,	Miner,	56	W.			Buck Run,		Cause unknown. Found sitting on bumper of car.
Nov. 21	Anthony Pauluskey,	Slavonian,	Trip rider,	23	S.			Pine Knot,		Falling under motor under breaker. Outside.
Dec. 14	John Neverduskey,	Lithuanian,	Miner,	45	M.	1	2	Buck Run,		Fall of top slate at face of breast.
15	George Malushka,	Slavonian,	Laborer,	58	W.			Phoenix Park,		Falling rock dumper—unloading rock. Outside.
24	John Kelich,	Austrian,	Miner,	46	M.	1	7	Thomaston,		Fall of slate from side of pillar.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 10	William Houtz,	American,	Repairman,	48	M.	Otto,		Burned by explosion of gas on gangway.
	Arthur Davis,	American,	Repairman,	21	S.			
12	John Costnack,	Polish,	Oiler,	40	M.	Buck Run,		Caught in machinery while oiling it. Outside.
	Francis Ford,	American,	Topman,	20	S.	Thomaston,		Run over by car. Outside.
20	Otto Snyder,	American,	Laborer,	18	S.	Pine Hill,		Caught between cars. Outside.
	Benjamin Williams,	American,	Oiler,	51	M.	Oak Hill,		Caught between cars. Outside.
	George Bush,	American,	Miner,	34	W.	Otto,		Rush of coal in breast.
21	Charles Smeitz,	American,	Carpenter,	30	M.	Pine Knot,		Lifting timber. Outside.
24	Joseph Mackalankos,	Lithuanian,	Miner,	41	S.	Phoenix Park,		Burned by explosion of gas in chamber.
31	William Love,	American,	Laborer,	56	S.	Otto,		Wrenched knee while stepping from chute.
	Edward Hoverocker,	American,	Laborer,	63	S.	Otto,		Struck by rolling stick of timber. Outside.
Feb. 5	Davis Hammer,	American,	Repairman,	49	M.	Oak Hill,		Falling in chute.
14	Martin Brophy,	American,	Topman,	18	S.	Pine Knot,		Caught between cars. Outside.
	George Pothoring,	American,	Laborer,	21	S.	Otto,		Lifting timber. Outside.
	William Boyer, Sr.,	American,	Repairman,	53	M.	Otto,		Struck by piece of coal.
19	Alex Kisick,	Austrian,	Driver,	27	S.	Lytle,	Schuylkill,	Caught between car and timber on gangway.
24	Michael Cobbie,	Greek,	Miner,	47	M.	Lytle,		Burned by explosion of gas at face of breast.
25	August Dolphos,	Tyrolean,	Laborer,	54	S.	Pine Hill,		Caught by gate of railroad car. Outside.
27	Simon Marchinski,	Lithuanian,	Miner,	40	M.	Phoenix Park,		Caught between sheet iron and piece of slate in breast.
March 4	Charles McGlyn,	American,	Repairman,	44	M.	New Castle,		Burned by explosion of gas in chute.
10	John Foley,	American,	Miner,	44	M.	Thomaston,		Fall of top slate at face of breast.
25	Steve Pellish,	American,	Oiler,	26	M.	Phoenix Park,		Falling from scraper line. Outside.
27	Matt. Simokitus,	Lithuanian,	Miner,	35	S.	Glendower,		Burned by explosion of gas in manway.
April 6	John Burns,	American,	Miner,	30	S.	Thomaston,		Falling while walking along gangway.
13	William Gibbin,	American,	Miner,	50	M.	Glendower,		Fall of rock in breast.
23	Joseph Knot,	Slavonian,	Timber cutter,	47	M.	Phoenix Park,		Struck by rail. Outside.
May 12	Frank Adamski,	Polish,	Miner,	38	M.	Phoenix Park,		Struck by piece of coal at battery.
June 3	Edward Andrewcheck,	American,	Driver,	18	S.	Glendower,		Caught between tail chain and side of car on gangway.
7	Bernard Dunlavy,	American,	Driver,	21	S.	John Veith,		Run over by mine car on gangway.
9	James McGuire,	American,	Assistant mine foreman,	49	M.	Oak Hill,		Burned by explosion of gas in breast.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
June 18	Frank Borrell,	Italian,	Miner,	45	M.	Oak Hill,		Burned by explosion of gas ignited while firing blast in breast.
	Dominick Purcello,	Italian,	Miner,	40	M.			
31	Stiney Mondric,	Polish,	Miner,	45	W.	Phoenix Park,		Burned by explosion of gas in breast ignited by match.
July 1	Schuyler Adams,	American,	Repairman,	53	M.	Otto,		Caught between rope and wheel while hoisting sand.
7	Thomas Leary,	American,	Topman,	35	S.	Pine Hill,		Struck by car at top of slope.
9	John Covitch,	Slavonian,	Miner,	27	M.	Pine Knot,		Burned by explosion of gas ignited while firing blast at face of breast.
12	James Richards,	American,	Coal inspector,	53	M.	Newcastle,		Caught under car wheel. Outside.
14	Con. Bolavage,	Lithuanian,	Miner,	32	M.	Oak Hill,		Fall of top coal in gangway.
17	Valentine Repach,	American,	Repairman,	19	S.	Pine Knot,		Stepping on nail. Outside.
22	Eli Gilbert,	American,	Miner's laborer,	40	M.	John Veith,		Lifting coal in chamber.
28	Edward Motely,	American,	Switchman,	19	S.	Pine Knot,		Struck by piece of coal from car. Outside.
31	Robert Reed,	American,	Nipper,	26	M.	Oak Hill,		Struck by rail on gangway.
	Joseph Sinko,	Austrian,	Miner,	40	M.	Newcastle,	Schuylkill,	Struck by piece of coal at battery.
Aug. 9	Irvin Dixon,	American,	Laborer,	18	S.	Lytle,		Struck by derailed car.
11	Frank Tricklow,	Polish,	Fireman,	52	M.	Pine Hill,		Falling on hot ashes. Outside.
19	Samuel Calderson,	Italian,	Miner,	24	M.	Phoenix Park,		Fall of rock on gangway.
23	George Doyle,	American,	Miner,	40	M.	Otto,		Pushing buggy in breast.
25	James Jenneway,	Italian,	Miner,	23	S.	Phoenix Park,		Fall of coal in breast.
30	Joseph Wagner,	American,	Miner's laborer,	23	M.	Glendower,		Foot caught in track frog on gangway.
Sept. 1	Jesse Marshall,	American,	Gang boss,	34	S.	Pine Hill,		Falling. Outside.
27	Charles Yudjukinis,	Lithuanian,	Miner,	29	S.	Phoenix Park,		Burned by explosion of gas in breast.
	Joseph Yudjukinis,	Lithuanian,	Miner,	33	M.			
28	Stiney Esmond,	Polish,	Miner,	41	M.	Lytle,		Burned by explosion of gas in chamber.
Oct. 1	Michael Bergan,	American,	Laborer,	47	S.	Pine Knot,		Struck by piece of rock. Outside.
15	Patrick Callaghan,	American,	Laborer,	55	M.	Pine Knot,		Caught between car and wall. Outside.
22	Robert Edwards,	American,	Driver,	30	S.	Pine Knot,		Rush of coal in chute.
28	Daniel Smeltz,	American,	Carpenter,	24	S.	Anchor Washery,		Struck by hammer. Outside.
Nov. 6	Frank Teichman,	American,	Laborer,	36	S.	Oak Hill,		Burned by explosion of gas in chute.
18	Paul Olenic,	Austrian,	Laborer,	47	M.	Lytle,		Squeezed between mine cars. Outside.
23	William Kowalski,	American,	Miner's laborer,	23	S.	Pine Hill,		Fall of slate at face of pillar.
26	John Delaney,	American,	Laborer,	60	S.	Anchor Washery,		While moving shanty it collapsed and fell on him. Outside.
Dec. 14	John Mosley,	Greek,	Switchman,	17	S.	Phoenix Park,		Caught between mine cars. Outside.
15	Charles Jones,	American,	Boiler tender,	37	M.	Lytle,		Burned by flame from boiler furnace. Outside.

Dec.	17	Thomas Close,	American,	Laborer,	22	S.	Pine Knot,		Nail penetrated foot while lifting collar.
	18	John Strange,	American,	Miner,	42	M.	Oak Hill,		Lump of coal rolled on foot in breast.
	20	William Lord, Jr.,	American,	Driver,	19	S.	Oak Hill,		Caught betweeen cars on gangway.
	23	John Zegolick,	Polish,	Miner,	28	S.	Buck Run,	Schuylkill,	Struck by timber on gangway.
	31	John Grabosky,	Lithuanian,	Miner,	51	S.	Pine Hill,		Squeezed between mule and car on gangway.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Pottsville, May 4 and 5. The Board of Examiners was composed of Michael J. Brennan, Inspector, Pottsville; James B. Neale, Operator, Buck Run; William Weir, Miner, Branchdale; Timothy Brennan, Miner, Heckscherville.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Bert H. Boltz, Adam Confair, James F. Brennan, George H. Williams, Branchdale; James J. Ryan, Daniel L. Freiler, Pottsville.

ASSISTANT MINE FOREMEN

Charles A. McGovern, John H. Edwards, Allen N. Clouser, Branchdale; Thomas Egan, Glen Carbon; Henry H. Sterling, Zerbe; Thomas L. Snyder, Leo F. Brady, Minersville.

1920

TWENTIETH DISTRICT

SCHUYLKILL COUNTY

F. C. Fenton, Inspector, Mahanoy City

SUMMARY OF STATISTICS

Collieries in operation (breakers),	7
Washeries in operation,	3
Mines in district,	18
Gaseous mines in operation,	18
Tons of coal shipped to market,	2,589,184
Tons used at mines for steam and heat,	473,881
Tons sold to local trade and used by employes,	43,944
Tons produced (gross),	3,107,009
Persons employed inside,	3,839
Persons employed outside,	2,049
Persons employed inside between 16 and 21 years,	347
Persons employed outside between 14 and 21 years,	668
Fatal accidents inside,	18
Fatal accidents outside,	5
Serious non-fatal accidents inside,	51
Serious non-fatal accidents outside,	14
Tons produced per fatal accident inside,	172,612
Tons produced per fatal accident inside and outside,	135,087
Persons employed per fatal accident inside,	213
Persons employed per fatal accident outside,	410
Persons employed per fatal accident inside and outside,	256
Persons employed per non-fatal accident inside,	75
Persons employed per non-fatal accident outside,	146
Persons employed per non-fatal accident inside and outside,	91
Wives made widows,	15
Children made orphans,	29
Steam locomotives outside,	21
Compressed air locomotives inside,	17
Electric motors inside,	23
Electric motors outside,	3
Tubular boilers,	157
Steam engines of all classes,	344
Internal combustion engines (gas),	1
Electric dynamos,	12
Pumps of all classes,	178
Pumps delivering water to surface,	34
Air compressors,	23
Fans in use,	23

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company, ...	2,552,611
Lehigh Valley Coal Company, ...	554,398
Total, ...	3,107,009

Production by Counties

Schuylkill, ...	3,107,009

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	14	3	17	49	13	62	182,329	52,094	3,345	1,757	5,102	239	586	68	135
Lehigh Valley Coal Co.,	4	2	6	2	1	3	138,600	277,199	494	292	786	124	146	247	292
Totals and averages,	18	5	23	51	14	65	172,612	63,408	3,839	2,049	5,888	213	410	75	146

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Ellangowan,	Schuylkill,	E. E. Kaercher,	Pottsville,	George Mayer, Division Supt.,	Mahanoy City,	P. & R.
Knickerbocker,						
Saint Nicholas,						
Suffolk,						
Maple Hill,				T. B. VanBuren, Division Supt.,	Mahanoy City,	
Tunnel Ridge,						
Mahanoy City,						
North Mahanoy,				A. F. Rissinger,	Saint Nicholas,	
Knickerbocker Washery,				F. B. Dawson,	Mahanoy City,	
North Mahanoy Washery,						
Lehigh Valley Coal Co.						
Park,	Schuylkill,	Thomas P. Thomas,	Wilkes-Barre,	John W. Price,	Park Place,	Lehigh Valley
Springdale Washery,						

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Ellangowan,	Schuylkill,	302,558	42,073	1,479	346,110	268	838	2	14	1,400	112,803	25
Knickerbocker†,		121,778	36,046	----------	157,824	268	321	----------	4	----------	48,590	19,163
Maple Hill,		322,069	67,695	----------	389,764	268	866	7	14	1,425	56,797	76,712
Mahanoy City,		306,385	39,499	33,603	379,487	285	658	2	4	----------	119,483	----------
North Mahanoy,		262,766	60,271	1,823	324,860	270	646	1	6	5,650	119,387	----------
Saint Nicholas,		125,558	43,455	962	169,975	273	234	2	3	----------	41,032	----------
Suffolk,††		246,114	33,706	1,047	280,867	273	769	3	14	----------	104,781	----------
Tunnel Ridge,		221,511	60,255	394	282,160	275	670	----------	3	----------	149,617	5,287
		1,908,739	383,000	39,308	2,331,047	----------	5,002	17	62	8,475	752,490	101,187
Washeries.												
Knickerbocker,		57,089	----------	----------	57,089	270	50	----------	----------	----------	1,550	1,425
North Mahanoy,		164,475	----------	----------	164,475	273	50	----------	----------	----------	----------	----------
		221,564	----------	----------	221,564	----------	100	----------	----------	----------	1,550	1,425
Totals,		2,130,303	383,000	39,308	2,552,611	----------	5,102	17	62	8,475	754,040	102,612
Lehigh Valley Coal Co.												
Park,	Schuylkill,	371,182	88,318	4,656	464,136	275	745	4	2	25	100,491	118,089
Springdale Washery,		87,699	2,563	----------	90,262	205	41	2	1	----------	8,025	----------
Totals,		458,881	90,881	4,636	554,398	----------	786	6	3	25	108,516	118,089
Grand totals,		2,589,184	473,881	43,944	3,107,009	----------	5,888	23	65	8,500	862,556	220,701

† Coal prepared at Ellangowan breaker.
†† Coal prepared at Saint Nicholas breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	----	--------	136	17,050	284	40,543	----	--------	11	1,972	124	110,502	20	12,482	433	----	16	17	21	18	11,929
Lehigh Valley Coal Co.,		----	--------	21	4,775	60	11,100	1	50	1	200	54	23,400	14	11,000	107	----	5	----	5	5	1,288
Totals,		----	--------	157	21,825	344	51,643	1	50	12	2,172	178	133,902	34	23,482	540	----	21	17	26	23	13,217

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiecmen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	9	108	------	1,195	230	------	------	10	------	154	40	150	167	29	------	32	1,221	3,345
Lehigh Valley Coal Co.,	Schuylkill,	3	19	------	268	51	------	------	10	------	32	12	7	13	12	4	4	59	494
Totals,		12	127	------	1,463	281	------	------	20	------	186	52	157	180	41	4	36	1,280	3,839

TABLE 3.—PART 1.—Continued.

Operators	County	Outside												
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Grand total inside and outside
Philadelphia and Reading Coal and Iron Co.,	Schulkill,	-------	8	20	44	219	9	2	68	235	41	1,111	1,757	5,192
Lehigh Valley Coal Co.,	Schulkill,	-------	2	5	18	64	8	6	13	----------	4	172	292	786
Totals,		-------	10	25	62	283	17	8	81	235	45	1,383	2,049	5,888

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schulkill,	26	22	26	22	23	24	23	25	10	25	22	25	273
Lehigh Valley Coal Co.,	Schulkill,	26	22	25	21	23	26	26	25	10	25	22	24	275

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 13	Joseph Strancofskie,	Lithuanian,	Miner,	34	M.	1		Suffolk,		Fall of coal at face of breast.
Feb. 24	Paul Wasacopskie,	Polish,	Miner,	37	M.	1	1	Maple Hill,		Fall of coal at face of breast.
25	John Luckashonas,	Lithuanian,	Miner,	58	M.	1		Maple Hill,		Fall of coal at face of skip.
	Adam Wasko,	Slavonian,	Driver,	28	M.	1	2	Maple Hill,		Bumped between cars on gangway.
April 13	Toney Portz,	Italian,	Miner,	31	M.	1		Park,		Premature blast at face of breast.
20	Thomas Gillinski,	Lithuanian,	Miner,	56	M.	1	4	Suffolk,		Fall of coal at face of skip.
May 5	John Demi,	American,	Laborer,	29	M.	1		Maple Hill,		Machinery at breaker. Outside.
12	Blady Pilochock,	Austrian,	Miner's laborer,	35	M.	1		Park,		Rush of coal in manway.
June 7	Joseph Fabley,	Lithuanian,	Miner,	38	M.	1	4	North Mahanoy,		Fall of coal at face of breast.
8	Leon Anderson,	Lithuanian,	Miner,	28	S.			Park,		Fall of slate at face of heading.
11	Frank Stoskis,	Lithuanian,	Miner,	26	M.	1	3	Saint Nicholas,		Fall of coal at face of breast.
28	Anthony Ganavitch,	Lithuanian,	Miner,	44	M.	1	3	Suffolk,		Fall of slate on gangway.
July 20	Jacob Luscavage,	Polish,	Miner,	29	M.	1	4	Maple Hill,		Burned by gas at face of breast.
Aug. 28	James Solowskie,	Polish,	Miner's laborer,	21	S			Ellangowan,	Schuylkill.	Fall of rock in gangway.
Oct. 28	John Cedolick,	Lithuanian,	Miner,	33	M	1	2	Maple Hill,		Burned by gas at face of breast.
Nov. 10	Edward Ashman,	American,	Driver,	20	S			Park,		Falling under trip of cars on gangway.
12	Peter Dunsavage,	Lithuanian,	Loader,	36	S			Saint Nicholas,		Premature blast in chute.
18	John Shlicavage,	Polish,	Laborer,	65	M	1		Ellangowan,		Machinery. Outside.
	Herman Witmer,	American,	Driver,	20	S			Mahanoy City,		Caught between car and rib at bottom of slope.
20	Dan Bias,	Slavonian,	Car loader,	55	M	1	2	Mahanoy City,		Nail penetrated foot when he jumped out of box car, resulting in blood poisoning. Outside
28	Mike Dubditus,	Lithuanian,	Miner,	46	S			Maple Hill,		Killed by fall of coal at face of chute.
Dec. 19	Joseph Shinton,	American,	Electric drag runner.	38	W		4	Springdale Washery.		
	Joseph Rishar,	American,	Laborer,	18	S.					Rush of culm while repairing electrically drawn shovel. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Name of colliery	County	Nature and cause of accident in brief
Jan. 11	Michael Morsiher,	American,	Topman,	31	M	North Mahanoy,		Lifting car on track. Outside.
12	Thomas Bolinskie,	American,	Loader,	19	S	Tunnel Ridge,		Caught between cars on manway.
Feb. 10	Joseph Meyer,	American,	Repairman,	53	M	Suffolk,		Struck by timber—unloading from mine car on gangway.
18	Thomas Broderick,	American,	Slatepicker,	17	S	Ellangowan,		Caught in breaker machinery. Outside.
Mar. 1	Anthony Karporage,	Lithuanian,	Timber cutter,	47	M	Maple Hill,		Falling on ice near breaker. Outside.
31	Idris Davies,	Welsh,	Miner,	57	M	North Mahanoy,		Fall of rock while timbering traveling road.
April 21	Peter Kuscavage,	American,	Oiler,	18	S	Mahanoy City,		Falling while painting breaker. Outside.
24	Michael Putchaconis,	Lithuanian,	Miner,	55	M	Maple Hill,		Fall of coal while repairing manway.
May 17	Michael Eranko,	Slavonian,	Miner,	29	M	Ellangowan,		Fall of rock in chute.
18	John Queder,	American,	Loader,	24	S	Ellangowan,		Cars on gangway.
19	Joseph Miscavage,	American,	Loader,	22	S	Ellangowan,		Caught under cars on gangway.
	Joseph Wilcofskie,	Polish,	Miner,	45	M	Suffolk,		Flying coal at face of breast.
20	John Quinn,	American,	Loader,	31	S	Ellangowan,		Mine cars in tunnel.
28	Wassel Zubick,	Greek,	Miner,	39	M	Park,		Burned by gas at face of breast.
	Mike Holonick,	Greek,	Miner,	34	M			
June 1	Anthony Trochis,	American,	Patcher,	17	S	Springdale Washery,		Cars near washery. Outside.
2	Isadore Rutcusky,	Russian,	Miner,	37	S	Maple Hill,		Burned by explosion of gas.
	Adam Covaleski,	Lithuanian,	Miner,	25	S	Maple Hill,	Schuylkill,	Burned by gas in heading.
5	William Shovelin,	Lithuanian,	Miner,	38	M	Maple Hill,		Caught by fall of coal in chute.
9	Stiney Kovalski,	American,	Driver,	19	S	Suffolk,		Injured by mule's hoof.
10	John Wasnass,	Lithuanian,	Miner,	35	S	Mahanoy City,		Fall of coal on gangway.
11	Victor Voshinski,	Lithuanian,	Timberman,	49	S	Ellangowan,		Fall of coal in breast.
11	George Eho,	Syrian,	Miner's laborer,	27	S	Suffolk,		Lifting car on track.
12	William Angle,	American,	Miner,	20	S	Suffolk,		Lifting car on track.
18	Anthony Gobrick,	Polish,	Miner,	56	M	Saint Nicholas,		Fall of rock on gangway.
19	Louis Lasuski,	American,	Miner's laborer,	23	S	Maple Hill,		Caught in chain on car.
	John Karavitch,	Lithuanian,	Miner,	44	M	Knickerbocker,		Cut by axe.
26	Dominick Konapitski,	Lithuanian,	Miner,	28	S	Knickerbocker,		Struck by falling prop.
July 12	Mike McGloga,	Slavonian,	Miner,	42	M	Suffolk,		Fall of slate in breast.
13	John Shukus,	Lithuanian,	Miner,	36	S	Ellangowan,		Fall of rock in gangway.
15	Alex Chickanavage,	Slavonian,	Miner,	36	M	North Mahanoy,		Fall of coal on gangway.
21	Larry Yackamovitch,	Polish,	Miner,	24	S	Maple Hill,		Struck by lump of coal while starting battery.
24	Martin Peznoskey,	American,	Slate picker,	16	S	Ellangowan,		Struck by plank in breaker. Outside.
26	Edward McCoog,	American,	Engineer,	36	S	Suffolk,		Caught in breaker machinery. Outside.
	Stiney Waleeck,	Polish,	Miner,	54	M	Suffolk,		Lifting piece of timber.
27	Robert Kline,	American,	Bottomman,	40	S	Suffolk,		Struck by piece of coal falling down slope.

TABLE 5.—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Name of colliery	County	Nature and cause of accident in brief
July 31	Joseph Darrah,	Slavonian,	Miner's laborer,	52	M	Mapel Hill,		Cut by piece of coal.
Aug. 4	John Winsko,	Polish,	Miner,	34	S	Knickerbocker,		Fall of top slate while timbering at face of gangway.
	Adolph Wolfe,	American,	Machinist,	52	W	North Mahanoy,		Caught in machinery. Outside.
5	Mat. Zelinsky,	Lithuanian,	Car runner,	60	W	Mahanoy City,		Cars—uncoupling.
10	Michael Yenalavage,	Lithuanian,	Miner,	48	M	Ellangowan,		Fall of rock in gangway.
	Michael Krukofski,	Lithuanian,	Miner,	41	M	Ellangowan,		Fall of coal off rib.
12	Paul Doosing,	American,	Miner's laborer,	25	S	North Mahanoy,		Struck by flying coal from pick.
	Charles Kenesky,	American,	Loader,	24	S	Mahanoy City,		Struck by piece of coal falling off car.
	August Walucavage,	Lithuanian,	Repairman,	55	M	Maple Hill,		Lifting rail.
	Frank Sevitzski,	Polish,	Miner,	24	S	Maple Hill,		Lifting lump of coal.
26	Bar. Mitkus,	Lithuanian,	Miner's laborer,	42	W	Suffolk,		Caught between cars.
28	Len. Lulhall,	American,	Spragger,	18	S	Ellangowan,		Caught between cars. Outside.
31	John Quiter,	American,	Loader,	25	S	Ellangowan,		Caught between mule and car on gangway.
Sept. 28	Matt Shucavage,	Lithuanian,	Miner's laborer,	40	S	Ellangowan,		Rush of coal in chute.
	John Sipsavage,	American,	Slate picker,	16	S	Maple Hill,	Schuylkill,	Falling into chute. Outside.
Oct. 9	Frank Droback,	Polish,	Miner's laborer,	62	W	Maple Hill,		Struck by falling prop.
11	Anthony Shuck,	American,	Jig runner,	17	S	Maple Hill,		Handling iron plate. Outside.
22	Stiney Buganovich,	Polish,	Miner,	44	M	Suffolk,		Fall of slate.
23	Anthony Dobkin,	Lithuanian,	Miner,	50	S	Maple Hill,		Struck by piece of coal falling from rib.
	Michael Suga,	Slavonian,	Miner,	33	M	Ellangowan,		Fall of top slate.
26	John Brill,	American,	Laborer,	19	S	North Mahanoy,		Caught in machinery. Outside.
27	James Redclift,	American,	Carpenter,	29	M	Suffolk,		Cut by sheet iron. Outside.
Nov. 3	Felix Mosko,	Polish,	Miner,	47	S	Knickerbocker,		Struck by piece of coal at face of chute.
13	John Dromkio,	Italian,	Miner,	31	M	Suffolk,		Fall of coal at face of breast.
22	George Terril,	American,	Miner,	39	M	Saint Nicholas,		Premature blast.
Dec. 10	Anthony Slapshinski,	Polish,	Miner's laborer,	28	S	Suffolk,		Lifting coal into car.
	William Millard,	American,	Miner,	31	M	Tunnel Ridge,		Fall of coal.
19	John Deitz,	American,	Lineman,	21	S	Saint Nicholas,		Falling from pole. Outside.
24	Joseph Derrish,	American,	Miner's laborer,	32	M	Tunnel Ridge,		Struck by piece of top clod falling from gangway.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held at Mahanoy City, May 4 and 5. The Board of Examiners was composed of P. C. Fenton, Inspector, Mahanoy City; T. R. Jones, Superintendent, Frackville; William Becker, Miner, Mahanoy City; Isaac Lewis, Miner, Mahanoy City.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Michael A. Evers, Bernard Gallagher, Daniel Lewis, Michael J. McNiff, Mahanoy City; Thomas P. Davies, Shenandoah.

ASSISTANT MINE FOREMEN

Joseph Gouldner, Mahanoy City.

1920

TWENTY-FIRST DISTRICT

SCHUYLKILL COUNTY

A. B. Lamb, Inspector, Shenandoah

SUMMARY OF STATISTICS

Collieries in operation (breakers),	11
Washeries in operation,	3
Mines in district,	24
Gaseous mines in operation,	21
Non-gaseous mines in operation,	3
Tons of coal shipped to market,	3,459,333
Tons used at mines for steam and heat,	443,543
Tons sold to local trade and used by employes,	64,404
Tons produced (gross),	3,967,280
Persons employed inside,	4,121
Persons employed outside,	2,789
Persons employed inside between 16 and 21 years,	288
Persons employed outside between 14 and 21 years,	727
Fatal accidents inside,	14
Fatal accidents outside,	5
Serious non-fatal accidents inside,	96
Serious non-fatal accidents outside,	14
Tons produced per fatal accident inside,	283,377
Tons produced per fatal accident inside and outside,	208,804
Persons employed per fatal accident inside,	294
Persons employed per fatal accident outside,	558
Persons employed per fatal accident inside and outside,	364
Persons employed per non-fatal accident inside,	43
Persons employed per non-fatal accident outside,	199
Persons employed per non-fatal accident inside and outside,	63
Wives made widows,	12
Children made orphans,	21
Steam locomotives outside,	50
Compressed air locomotives inside,	11
Electric motors inside,	38
Electric motors outside,	8

Tubular boilers,	132
Steam engines of all classes,	307
Electric dynamos,	18
Pumps of all classes,	108
Pumps delivering water to surface,	20
Air compressors,	27
Fans in use,	20

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company,	1,472,976
Lehigh Valley Coal Company,	1,111,966
Locust Mountain Coal Company,	578,123
Susquehanna Collieries Company,	268,304
Harleigh-Brookwood Coal Company,	229,117
Thomas Colliery Company,	173,926
Raven Run Coal Company,	109,472
Cambridge Coal Company,	23,396
Total,	3,967,280

Production by Counties

Schuylkill,	3,967,280

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	6	1	7	70	10	80	245,496	21,043	2,104	1,122	3,226	351	1,122	30	112
Lehigh Valley Coal Co.,	4	1	5	14	1	15	277,991	79,426	1,030	517	1,547	257	517	74	517
Locust Mountain Coal Co.,	2	1	3	4	------	4	289,061	144,531	392	474	866	196	474	98	------
Susquehanna Collieries Co.,	1	------	1	5	1	6	268,304	53,661	302	171	473	302	171	60	171
Harleigh-Brookwood Coal Co.,	------	1	1	------	1	1	------	------	------	172	172	------	172	------	172
Thomas Colliery Co.,	1	1	2	3	1	4	173,926	57,975	196	157	353	196	157	65	157
Other Operators—no accidents,	------	------	------	------	------	------	------	------	97	176	273	------	------	------	------
Totals and averages,	14	5	19	96	14	110	283,377	41,326	4,121	2,789	6,910	294	658	43	199

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Indian Ridge,	Schuylkill,	E. E. Kaercher,	Pottsville,	J. B. Garner, Division Supt.,	Shenandoah,	P. & R.,
West Shenandoah,						
Kohinoor,						
Turkey Run,						
Shenandoah City,						
Plank Ridge Washery,				Morgan Bevan, Division Supt.,	Ashland,	
Hammond,		G. B. Hadesty,	Pottsville,			
Lehigh Valley Coal Co.						
Packer Nos. 2, 3, 4, 5,	Schuylkill,	Thomas P. Thomas,	Wilkes-Barre,	F. H. Wagner,	Lost Creek,	Lehigh Valley,
Locust Mountain Coal Co.						
Weston,	Schuylkill,	B. H. Stockett,	Shenandoah,	F. J. Neiman,	Shenandoah,	Lehigh Valley,
Susquehanna Collieries Co.						
William Penn,	Schuylkill,	Robert A. Quin,	Wilkes-Barre,	M. O. Edwards,	Shaft,	Pennsylvania.
Harleigh-Brookwood Coal Co.						
Black Creek No. 1 Washery,	Schuylkill,	Thomas R. Jones,	Frackville,	Richard Kraff,	Frackville,	Lehigh Valley P. & R.
Black Creek No. 2 Washery,						
Thomas Colliery Co.						
Kehley Run,	Schuylkill,	T. R. Jones,	Frackville,	G. H. Lovell,	Shenandoah,	P. & R.
Raven Run Coal Co.						
Raven Run,	Schuylkill,	G. P. Troutman,	Hazleton,	Wilmot C. Jones,	Raven Run,	P. & R.
Cambridge Coal Co.						
Cambridge,	Schuylkill,	B. F. James,	Shenandoah,	B. F. James,	Shenandoah,	P. & R.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Indian Ridge,	Schuylkill,	151,833	23,243	----------	175,076	275	441	1	11	75	93,830	----------
West Shenandoah,	Schuylkill,	500,675	65,571	----------	566,246	273	608	3	17	----------	36,469	18,387
Kohinoor,†	Schuylkill,	----------	14,748	----------	14,748	†	156	----------	13	----------	23,514	----------
Turkey Run,†	Schuylkill,	----------	----------	----------	*	†	574	2	11	425	84,365	----------
Shenandoah City,	Schuylkill,	151,997	44,786	46,763	243,546	275	677	1	14	25	71,363	11,675
Hammond,	Schuylkill,	264,874	83,703	5,565	354,142	275	681	----------	11	----------	120,270	36,100
	Schuylkill,	1,069,379	232,051	52,328	1,353,758	----------	3,137	7	77	525	429,811	66,162
Plank Ridge Washery,	Schuylkill,	111,222	7,996	----------	119,218	280	89	----------	3	----------	1,275	----------
Totals,		1,180,601	240,047	52,328	1,472,976	----------	3,226	7	80	525	431,086	66,162
Lehigh Valley Coal Co.												
Packer No. 2,††	Schuylkill,	193,748	17,031	----------	210,779	††	294	1	3	----------	114,510	----------
Packer No. 3,††	Schuylkill,	125,180	----------	----------	125,180	††	144	1	1	----------	28,220	----------
Packer No. 4,	Schuylkill,	144,003	64,489	1,949	210,441	277	421	1	4	----------	56,849	----------
Packer No. 5,	Schuylkill,	506,654	55,212	3,700	565,566	277	688	2	7	----------	192,631	----------
Totals,		969,585	136,732	5,649	1,111,966	----------	1,547	5	15	----------	392,210	----------
Locust Mountain Coal Co.												
Weston,	Schuylkill,	570,780	4,927	2,416	578,123	287	866	3	4	107,125	445,065	----------
Susquehanna Collieries Co.												
William Penn,	Schuylkill,	229,178	36,696	2,430	268,304	273	473	1	6	----------	119,742	----------
Harleigh-Brookwood Coal Co.												
Black Creek No. 1 Washery,	Schuylkill,	191,473	13,928	3	205,404	277	154	1	1	----------	1,600	----------
Black Creek No. 2 Washery,	Schuylkill,	23,313	400	----------	23,713	193	18	----------	----------	----------	----------	----------
Totals,		214,786	14,328	3	229,117	----------	172	1	1	----------	1,600	----------

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Thomas Colliery Co.												
Kehley Run,	Schuylkill,	169,539	3,202	1,185	173,926	265	353	2	4	----------	10,403	30,070
Raven Run Coal Co.												
Raven Run,	Schuylkill,	105,208	3,914	350	109,472	248	222	--------	--------	2,075	7,425	13,875
Cambridge Coal Co.												
Cambridge,	Schuylkill,	19,656	3,697	43	23,396	255	51	--------	--------	----------	12,000	----------
Grand totals,	----------	3,459,333	443,543	64,404	3,967,280	--------	6,910	19	110	109,752	1,419,531	110,107

† Coal prepared at West Shenandoah breaker.
* Production included with West Shenandoah Colliery.
†† Coal prepared at Packer No. 4 breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	----	--------	79	10,200	183	21,010	----	--------	5	1,030	78	61,498	11	3,865	185	----	9	11	10	13	9,029
Lehigh Valley Coal Co.,	Schuylkill,	----	--------	24	6,200	62	7,269	----	--------	3	650	12	10,400	4	6,300	58	----	6	----	22	7	1,470
Locust Mountain Coal Co.	Schuylkill,	----	--------	2	100	34	2,025	----	--------	----	--------	7	2,000	----	--------	----	----	19	----	8	3	2,600
Susquehanna Collieries Co.	Schuylkill,	----	--------	15	2,300	18	1.650	----	--------	----	--------	----	--------	----	--------	66	----	1	----	----	1	1,600
Harleigh-Brookwood Coal Co.,	Schuylkill,	----	--------	6	675	6	550	----	--------	3	187	3	1,600	----	--------	3	----	8	----	----	----	--------
Thomas Colliery Co.,	Schuylkill,	----	--------	2	300	----	--------	----	--------	6	1,395	3	3,000	2	2,000	28	----	2	----	2	2	135
Raven Run Coal Co.,	Schuylkill,	----	--------	1	125	----	--------	----	--------	1	150	4	7,500	3	6,000	11	----	4	----	4	1	45
Cambridge Coal Co.,	Schuylkill,	----	--------	3	400	4	125	----	--------	----	--------	1	400	----	--------	7	----	1	----	----	----	--------
Totals,	----------	----	--------	132	20,300	307	32,629	----	--------	18	3,412	108	86,398	20	18,165	358	----	50	11	46	27	14,879

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiecmen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	7	56	------	742	242	------	------	6	------	98	27	68	193	23	------	27	615	2,1[illegible]4
Lehigh Valley Coal Co.,		6	54	------	488	46	------	------	48	------	17	23	27	47	17	10	15	252	1,0[illegible]0
Locust Mountain Coal Co.,		1	1	7	259	18	------	------	13	12	------	8	7	9	7	------	------	50	39
Susquehanna Collieries Co.,		1	1	10	159	5	------	------	------	------	34	4	8	12	------	------	1	67	302
Harleigh-Brookwood Coal Co.,		------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Thomas Colliery Co.,		2	5	------	118	8	------	------	2	1	7	3	3	8	5	------	------	34	19[illegible]
Raven Run Coal Co.,		1	2	------	11	11	------	------	3	3	1	4	2	6	2	------	------	25	71
Cambridge Coal Co.,		1	1	1	14	4	------	------	------	------	2	2	------	1	------	------	------	------	26
Totals,		19	100	18	1,791	334	------	------	72	16	159	71	115	276	54	10	43	1,043	4,12[illegible]

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	--------	5	15	37	151	5	9	94	61	24	721	1,122	3,226
Lehigh Valley Coal Co.,		--------	4	12	61	63	14	7	11	17	9	319	517	1,547
Locust Mountain Coal Co.,		2	12	15	25	46	19	33	21	17	26	258	474	866
Susquehanna Collieries Co.,		1	1	7	14	25	12	--------	25	3	10	73	171	4.3
Harleigh-Brookwood Coal Co.,		1	3	1	7	20	3	2	6	--------	1	128	172	172
Thomas Colliery Co.,		1	1	2	6	10	3	1	32	10	4	87	157	353
Raven Run Coal Co.,		1	1	4	9	15	9	3	30	--------	3	76	151	222
Cambridge Coal Co.,		--------	2	1	2	4	1	2	1	--------	1	11	25	51
Totals,	--------	6	29	57	161	334	66	57	220	108	78	1,673	2,789	6,910

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	26	22	26	23	23	24	21	25	11	25	22	25	274
Lehigh Valley Coal Co.,		26	24	25	22	22	26	26	25	9	25	22	25	277
Locust Mountain Coal Co.,		26	24	27	21	25	26	25	25	13	25	24	26	287
Susquehanna Collieries Co.,		25	23	25	22	22	26	26	23	9	25	22	25	273
Thomas Colliery Co.,		24	23	18	22	23	24	25	25	11	25	21	24	265
Raven Run Coal Co.,		11	21	18	23	23	24	23	23	9	25	22	26	248
Cambridge Coal Co.,		23	20	24	22	23	21	19	21	10	25	22	25	255

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 22	John Devanny.	American.	Ashman.	51	M.	1	0	Packer No. 6.		Caught in spur wheel of ash conveyor and pulled into machinery. Outside.
Feb. 19	Samuel Matto.	Italian.	Laborer.	43	M.	1	4	Black Creek No. 1 Washery.		Rush of culm on bank. Outside.
March 9	Peter Strencofsky.	Polish.	Miner.	23	M.	1	1	Indian Ridge.		Falling timber at bottom of slope, knocked out by runaway car.
18	Victor Scrifshinsky.	Polish.	Timberman.	38	M.	1	8	West Shenandoah.		Thrown from car on slope, when brake gave way.
April 9	John Vitkus.	Lithuanian.	Miner.	30	S.			Turkey Run.		Rush of coal at face of chute.
May 4	George Lawlor.	American.	Driver.	38	S.			Packer No. 3.		Falling under moving cars on gangway—attempted to jump between motor and cars.
11	Joseph Savitskie.	Lithuanian.	Bratticeman.	51	M.	1		Packer No. 2.		Burned by explosion of gas in breast.
20	Walter Witeofsky.	Lithuanian.	Miner.	44	S.			Weston.		Fall of rock at face of breast.
Aug. 9	Walter Lack.	American.	Miner.	30	M.	1		Packer No. 4.	Schuylkill.	Rush of water and slush from gangway above carried him down chute—pillar work.
10	Joseph Scully.	American.	Laborer.	34	S.			Kehley Run.		Rush of culm on culm bank. Outside.
13	John Chemitskie.	Polish.	Miner.	46	M.	1		West Shenandoah.		Burned by explosion of gas on gangway.
30	Joseph Bella.	Lithuanian.	Miner.	31	M.	1	0	William Penn.		Fall of coal at face of chute.
	Louis Ross.	Italian.	Steam driller.	27	M.	1	3	Weston.		Blast at stripping—firing two holes. Outside.
Oct. 2	Adam Smeresky.	Polish	Miner.	47	M.	1	3	Weston.		Fall of coal at face of breast.
12	Mike Nimitskie.	Lithuanian.	Miner.	28	S.			Shenandoah City.		Blast on gangway.
Nov. 6	John Cardin.	American.	Fire boss.	35	S.			Packer No. 5.		Smothered by gas in heading.
Dec. 16	Joseph Carbonnie.	Italian.	Dumpman.	39	S.			West Shenandoah.		Cars on rock bank. Outside.
17	Charles Lewis.	American.	Assistant mine foreman.	51	M.	1		Kehley Run.		Rush of coal in chute.
23	John Gumshiskie.	Polish	Laborer.	48	M.	1	2	Turkey Run.		Run over by car on slope—fell from car.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 10	Frank Subalsky,	Polish	Miner,	49	S.	Kohinoor,	Schuylkill.	Struck by car.
12	Charles Kaleda,	Lithuanian	Miner,	42	M.	Turkey Run,		Struck by piece of coal.
14	Jos. Mulsuduskas,	Lithuanian	Miner,	27	M.	Turkey Run,		Struck by piece of coal.
	Jos. Liteavage,	Lithuanian	Miner,	40	M.	Packer No. 4,		Struck elbow against chute.
15	John Spor,	American	Laborer,	18	S.	Plank Ridge Washery,		Falling against steam line. Outside.
21	Michael Socker,	Austrian	Miner,	42	M.	Packer No. 5,		Burned by gas—walked into gas with naked light.
	Peter Poeznick,	Austrian	Miner,	45	M.			
	Browny Loshcofskie,	Polish	Miner,	50	M.	Packer No. 4,		Fall of rock.
22	William Weikel,	American	Laborer,	23	M.	Weston,		Struck by wrench—slipped.
27	Stiney Verbosky,	Russian	Miner,	44	M.	Packer No. 5,		Burned by gas—used naked light in gas.
29	John Shalakus,	Lithuanian	Miner,	51	M.	Weston,		Fall of rock.
Feb. 3	John Buscavage,	Lithuanian	Miner,	53	S.	Hammond,		Falling.
11	Anthony Wychonus,	Lithuanian	Laborer,	51	M	Indian Ridge,		Lifting timber.
12	Jos. Shappel,	American	Laborer,	65	M	Shenandoah City,		Caught between cars.
13	Frank Uravage,	American	Driver,	20	S	Shenandoah City,		Caught between cars.
19	Mike Hudock,	Russian	Miner,	25	M	Indian Ridge,		Struck by piece of coal.
	Stiney Wozinskie,	Polish	Miner,	55	M	Shenandoah City,		Lifting timber.
21	Andrew Banchen,	Lithuanian	Laborer,	48	M	Kohinoor,		Lifting timber.
22	Anthony Tomachitus,	American	Laborer,	18	S	Hammond,		Struck by rope that broke.
	Frank Zibries,	Lithuanian	Laborer,	60	S	Kehley Run,		Struck by car.
24	John Polek,	Slavonian	Laborer,	20	S	Black Creek No. 1 Washery,		Caught by machinery. Outside.
25	Steve Connick,	Polish	Miner,	44	M	Indian Ridge,		Struck by timber.
26	Anthony Shoeslack,	Polish	Miner,	22	S	Indian Ridge,		Struck by flying coal from shot.
	Frank Adamskiee,	Lithuanian	Miner,	24	S	Shenandoah City,		Burned by gas—used naked light in gas.
	Clem Sapnickes,	Lithuanian	Miner,	40	M			
Mar. 6	Sylvester Sinscofskie,	Polish	Miner,	37	S	Kohinoor,		Falling prop.
20	Peter Slevanskie,	Polish	Miner,	31	M	Turkey Run,		Fall of coal.
24	Albert Broome,	American	Miner,	55	S	Turkey Run,		Struck by lever while blocking car.
29	George Shelaka,	Lithuanian	Miner,	39	S	Hammond,		Struck by piece of coal.
	William Dalton,	American	Laborer,	21	S	Indian Ridge,		Lifting timber. Outside.
30	Jos. Shelanskie,	Lithuanian	Laborer,	29	M	Turkey Run,		Caught between rocks.
31	Mike Sabata,	Polish	Miner,	43	M	Turkey Run,		Struck by cable.
	John Gilroy,	American	Driver,	18	S	Kohinoor,		Lifting car.
April 17	William Dulskie,	American	Bratticeman,	38	M	Shenandoah City,		Caught between car and lever.
19	Chas. Simmons,	Lithuanian	Miner,	20	S	Hammond,		Struck by rolling rock.
21	John O. Grudnick,	Russian	Miner,	36	M	Packer No. 5,		Burned by gas—struck match in gas.
	Thos. Martin,	American	Miner,	54	M	Indian Ridge,		Falling.
	Harry Reeves,	American	Repairman,	55	M	Kehley Run,		Thrown from car.

April	30	Simon Drojack,	Greek,	Fireman,	26	S	Indian Ridge,		Lifting iron plate. Outside.
May	5	Jos. Zucosky,	Lithuanian,	Miner,	34	M	Hammond,		Burned by gas in breast—used naked light.
	11	Stiney Benofsky,	Russian,	Miner,	40	M	Packer No. 5,		Struck by piece of coal.
	15	Jos. Whitcavage,	Polish,	Miner,	30	M	Shenandoah City,		Struck by piece of coal.
	20	Stiney Chisnouskie,	Polish,	Miner,	35	M	Turkey Run,		Fall of rock.
	21	Louis Swartz,	German,	Laborer,	55	M	William Penn,		Struck by piece of coal.
	22	Harry Kennard,	American,	Miner,	34	M	Shenandoah City,		Fall of coal.
	27	William Younavage,	Polish,	Miner,	50	M	Indian Ridge,		Struck by timber.
	29	Leo Perlinskie,	American,	Jig runner,	17	S	Plank Ridge Washery,		Crushed by elevator. Outside.
		Stiney Kutskill,	Lithuanian,	Miner,	35	M	William Penn,		Struck by rock.
June	1	Anthony Winlouskie,	Polish,	Miner,	58	M	Turkey Run,		Lifting timber.
	4	Mike Perchunis,	Greek,	Miner,	36	M	Kohinoor,		Fall of coal.
		Anthony Saunders,	Polish,	Miner,	53	M	Shenandoah City,		Struck by timber.
		Lewis Barocofskie,	Polish,	Miner,	34	M	Indian Ridge,		Loading buggy.
	8	Jos. Austra,	Lithuanian,	Laborer,	20	S	Kohinoor,		Struck by flying coal.
	10	William Goodridge,	American,	Topman,	48	M	Shenandoah City,		Caught between car and door.
	18	Richard Delowery,	American,	Picker,	17	S	Kehley Run,		Caught in rope wheel. Outside.
	22	Jos. Nayokis,	Lithuanian,	Miner,	33	S	Hammond,		Fall of coal.
	28	John Kerewelok,	Polish,	Miner,	32	M	West Shenandoah,		Fall of coal.
	30	John Kolishen,	Greek,	Miner,	38	M	Kohinoor,		Fall of coal.
July	2	John Gobrick,	Polish,	Laborer,	55	M	Shenandoah City,		Struck by timber.
	6	Frank Subaez,	Lithuanian,	Driver,	22	M	William Penn,		Falling under car.
	8	Evan Arnold,	American,	Carpenter,	55	M	Packer No. 5,		Struck by car. Outside.
	13	Elias Nahas,	Syrian,	Laborer,	33	M	Indian Ridge,		Cause not reported.
		Andrew Uravage,	Polish,	Laborer,	45	M	West Shenandoah,		Struck by piece of coal.
	14	Jos. Wilkaltus,	American,	Motorman's assistant.	19	S	Packer No. 4,		Squeezed between cars.
	15	Max Kursody,	Russian,	Miner,	39	M	Hammond,	Schuylkill,	Fall of rock.
	16	John Gervel,	American,	Laborer,	23	S	West Shenandoah,		Struck by rock in chute. Outside.
	19	William Washman,	Polish,	Miner,	13	M	West Shenandoah,		Caught between wheel and sprag.
		Anthony Covaleskie,	Lithuanian,	Laborer,	18	S			
	20	Lewis Romanskie,	Lithuanian,	Miner,	34	S	Shenandoah City,		Stepped on nail.
	23	Stiney Kusma,	Polish,	Miner,	42	S	Kohinoor,		Bumped toe against pipe.
Aug.	7	Jos. Plitnick,	Lithuanian,	Miner,	32	M	Turkey Run,		Fall of coal.
		Adam Stancheck,	Lithuanian,	Miner,	29	M	Weston,		Fall of coal.
	9	William Gobrick,	Polish,	Miner,	33	M	Packer No. 4,		Rush of slush.
	12	John Polock,	Polish,	Miner,	31	M	Kohinoor,		Fall of coal.
		Frank Betgot,	Polish,	Miner,	38	M	West Shenandoah,		Burned by gas—walked into gas with naked light.
		Alex Grodltskie,	Polish,	Miner,	33	M	West Shenandoah,		Burned by gas—walked into gas with naked light.
	13	Yocum Opanez,	Polish,	Miner,	37	M	Kohinoor,		Lifting coal.
		John Bareufskie,	Polish,	Miner,	44	M	West Shenandoah,		Burned by gas—used naked light in gas.
	14	John Shilensky,	American,	Laborer,	17	S	West Shenandoah,		Caught between chain and timber. Outside.
	23	Roy Lambert,	American,	Teamster,	20	S	Kohinoor,		Struck by sprag. Outside.
	24	William Suckitus,	Lithuanian,	Miner,	46	M	Hammond,		Burned by gas—used naked light in gas.
		William Stahellis,	Lithuanian,	Miner,	45	M			
	25	John Lushus,	Lithuanian,	Miner,	35	M	Hammond,		Explosion of cap in leg hole.
Sept.	1	Alex Alexsines,	Lithuanian,	Miner,	46	M	West Shenandoah,		Burned by gas—struck match in gas.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Sept. 25	Martin Mesakinus,	Lithuanian,	Miner,	30	M	Weston,	Schuylkill,	Explosion of cap.
29	Alex Karleskie,	Polish,	Bottomman,	24	S	West Shenandoah,		Stepping from car.
	George Daniels,	Lithuanian,	Miner,	47	S	West Shenandoah,		Fall of coal.
	Alex Annis,	Polish,	Driver,	18	S	Indian Ridge,		Kicked by mule.
Oct. 1	Chas. Camerousky,	Lithuanian,	Laborer,	26	S	Hammond,		Struck by timber.
12	Anthony Cochinsky,	Lithuanian,	Miner,	33	S	Shenandoah City,		Premature blast.
21	Frank Shustack,	Polish,	Miner,	43	M	West Shenandoah,		Fall of coal.
26	George Zucofskie,	Lithuanian,	Miner,	38	S	William Penn,		Struck by sheet iron.
Nov. 3	William Mercavage,	Polish,	Miner,	38	M	Kehley Run,		Lifting timber.
4	Mike Kogut,	Polish,	Miner,	28	S	Turkey Run,		Caught by car.
10	John Subalesky,	Lithuanian,	Miner,	52	M	Kohinoor,		Fall of coal.
17	William Yenalavage,	Russian,	Miner,	34	M	Packer No. 2,		Fall of coal.
19	Laf. Lambert,	American,	Laborer,	40	S	Shenandoah City,		Caught in machinery. Outside.
23	John Adamavage,	Polish,	Miner,	36	M	West Shenandoah,		Fall of coal.
24	Sylvester Lambert,	American,	Engineer,	35	M	West Shenandoah,		Finger lacerated by piece of iron. Outside.
26	Walter Kroushinsky,	Polish,	Laborer,	33	M	Kohinoor,		Falling over rail.
28	Henry Demanczyk,	American,	Laborer,	23	S	Plank Ridge Washery,		Struck by piece of steel. Outside.
Dec. 2	Victor Youchukis,	Polish,	Miner,	53	M	West Shenandoah,		Caught by timber.
	John Larkin,	American,	Motorman,	21	S	Packer No. 2,		Caught by machinery of motor.
3	Morgan Davis,	American,	Carpenter,	27	M	West Shenandoah,		Lifting timber. Outside.
	William Quitcofsky,	American,	Driver,	21	S	Packer No. 2,		Caught between motor and timber.
4	Jos. Slovick,	Polish,	Miner,	47	M	Turkey Run,		Fall of coal.
15	Louis Wilcofsky,	Russian,	Miner,	60	M	Packer No. 3,		Fall of slate.
29	Dom. Stancavage,	Russian,	Miner,	40	M	Packer No. 5,		Caught by motor.
	Reese Jones,	American,	Carpenter,	22	M	William Penn,		Lifting. Outside.
	Joseph Selconis,	Lithuanian,	Miner,	40	M	William Penn,		Caught by rush of coal.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Shenandoah, May 4 and 5. The Board of Examiners was composed of A. B. Lamb, Inspector, Shenandoah; M. O. Edwards, Superintendent, Shaft; William Temple, Miner, Shenandoah; Albert R. Broome, Shenandoah.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Anthony J. Dean, Lost Creek; John J. McHale, Ashland; Edward Lavelle, John B. Sheridan, John L. Malony, Connerton.

ASSISTANT MINE FOREMEN

William J. Wynne, Eugene McDonald, Girardville; John J. Jenkins, James J. Heaton, Frank Caslusky, Raymond E. Herbein, Shenandoah; Michael Caufield, Lost Creek.

1920

TWENTY-SECOND DISTRICT

Schuylkill, Columbia and Northumberland Counties

William Reid, Inspector, Centralia

SUMMARY OF STATISTICS

Collieries in operation (breakers),	14
Washeries in operation,	3
Mines in district,	48
Gaseous mines in operation,	34
Non-gaseous mines in operation,	14
Tons of coal shipped to market,	3,512,462
Tons used at mines for steam and heat,	697,193
Tons sold to local trade and used by employes,	55,881
Tons produced (gross),	4,265,536
Persons employed inside,	4,641
Persons employed outside,	2,980
Persons employed inside between 16 and 21 years,	342
Persons employed outside between 14 and 21 years,	768
Fatal accidents inside,	19
Fatal accidents outside,	5
Serious non-fatal accidents inside,	92
Serious non-fatal accidents outside,	29
Tons produced per fatal accident inside,	224,501
Tons produced per fatal accident inside and outside,	177,730
Persons employed per fatal accident inside,	244
Persons employed per fatal accident outside,	596
Persons employed per fatal accident inside and outside,	317
Persons employed per non-fatal accident inside,	51
Persons employed per non-fatal accident outside,	103
Persons employed per non-fatal accident inside and outside,	63
Wives made widows,	15
Children made orphans,	31
Steam locomotives outside,	46
Compressed air locomotives inside,	4
Electric motors inside,	45
Electric motors outside,	5
Gasoline locomotives inside,	2
Tubular boilers,	168
Steam engines of all classes,	314
Internal combustion engines (gas),	2

Electric dynamos,	21
Pumps of all classes,	142
Pumps delivering water to surface,	42
Air compressors,	33
Fans in use,	40
New mines opened,	4
Old mines abandoned,	1

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company,	1,985,448
Lehigh Valley Coal Company,	1,131,662
Harleigh-Brookwood Coal Company,	416,379
Midvalley Coal Company,	235,922
East Bear Ridge Coal Company,	242,376
W. R. McTurk Coal Company,	121,917
Repplier Coal Company,	45,892
Locust Dale Coal Company,	43,224
Laurel Coal Mining Company,	42,716
Total,	4,265,536

Production by Counties

Schuylkill,	1,928,119
Columbia,	1,358,912
Northumberland,	978,505
Total,	4,265,536

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	13	4	17	75	19	94	152,727	26,473	2,464	1,606	4,070	189	401	33	85
Lehigh Valley Coal Co.,	3	1	4	7	1	8	377,221	161,666	1,033	500	1,533	344	500	148	500
Harleigh-Brookwood Coal Co.,	------	------	------	3	5	8	------	138,793	422	282	704	------	------	141	56
Midvalley Coal Co.,	1	------	1	3	3	6	235,922	78,641	220	184	404	220	------	73	61
East Bear Ridge Coal Co.,	2	------	2	3	1	4	121,188	80,792	303	136	439	151	------	101	136
W. R. McTurk Coal Co.,	------	------	------	1	------	1	------	121,917	151	141	292	------	------	151	------
Other Operators—no accidents,	------	------	------	------	------	------	------	------	48	131	179	------	------	------	------
Totals and averages,	19	5	24	92	29	121	224,501	46,365	4,641	2,980	7,621	244	596	51	103

TABLE 1.—Operators, location of collieries, railroads

Operator and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
Locust Gap,	Northumberland,	G. B. Hadesty,	Pottsville,	W. A. Seitzinger,	Mount Carmel,	P. & R.
Locust Spring,	Northumberland,			W. A. Seitzinger,	Mount Carmel,	
Potts,	Columbia,			Morgan Bevan,	Ashland,	
Bast,	Schuylkill,			Morgan Bevan,	Ashland,	
Gilberton,	Schuylkill,			Morgan Bevan,	Ashland,	
Draper,	Schuylkill,			Morgan Bevan,	Ashland,	
Boston Run,	Schuylkill,	E. E. Kaercher,	Pottsville,	J. H. Pollard,	Mahanoy City,	
Lehigh Valley Coal Co.						
Centralia,	Columbia,	Thomas P. Thomas,	Wilkes-Barre,	H. J. Heffner,	Centralia	Lehigh Valley.
Sayre,	Northumberland,					
Continental Washery,	Columbia,					
Harleigh-Brookwood Coal Co.						
Lawrence,	Schuylkill,	Thomas R. Jones,	Frackville,	E. D. Straub,	Frackville,	Penna. and P. & R.
Midvalley Coal Co.						
Midvalley,	Columbia,	G. P. Troutman,	Hazleton,	Peter Shovlin,	Wilburton,	Lehigh Valley.
East Bear Ridge Coal Co.						
East Bear Ridge,	Schuylkill,	G. T. Davis,	Scranton,	James H. Pierce,	Mahanoy Plane,	P. & R.
W. R. McTurk Coal Co.						
Girard,	Schuylkill,	Morton H. McTurk,	Girardville,	J. M. Holt,	Girardville,	P. & R.
Laurel Coal Mining Co.						
Bickel,	Schuylkill,	John J. Walsh,	Mowry,	John J. Walsh,	Mowry,	P. & R.
Reppler Coal Co.						
Locust Run Washery,	Columbia,	James B. Neale,	Minersville,	Charles L. Yeager,	Ashland,	P. & R.
Locust Dale Coal Co.						
Locust Dale Washery,	Columbia,	James B. Neale,	Minersville,	Charles L. Yeager,	Ashland,	P. & R.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Locust Gap,	Northumberland,	462,550	4,148	2,703	469,401	275	330	1	15	----------	127,330	4,087
Locust Spring,	Northumberland,	----------	96,356	----------	96,356	*	758	2	24	----------	127,763	15,412
Potts,	Columbia,	260,990	41,699	12,271	314,960	272	698	----------	20	----------	85,014	88,289
Bast,	Schuylkill,	256,946	61,400	13,398	311,744	277	677	9	12	----------	138,295	29,332
Bancroft,	Schuylkill,	215,840	12,150	----------	227,990	272	205	1	2	1,875	27,760	3,215
Gilberton,	Schuylkill,	146,275	66,127	6,007	218,409	276	617	1	11	----------	134,062	75
Draper,	Schuylkill,	165,428	33,473	----------	198,901	276	379	1	5	----------	96,473	----------
Boston Run,	Schuylkill,	86,873	60,814	----------	147,687	276	406	2	5	100	107,485	----------
Totals,	----------	1,574,902	376,167	34,379	1,985,448	----------	4,070	17	94	1,975	844,182	140,410
Lehigh Valley Coal Co.												
Centralia,	Columbia,	426,839	72,752	6,809	506,400	276	758	----------	5	----------	248,923	----------
Sayre,	Northumberland,	319,351	84,999	8,398	412,748	272	743	3	3	2,350	206,765	----------
		746,190	157,751	15,207	919,148	----------	1,501	3	8	2,350	455,688	----------
Continental Washery,	Columbia,	208,471	4,043	----------	212,514	276	32	1	----------	----------	----------	----------
Totals,	----------	954,661	161,794	15,207	1,131,662	----------	1,533	4	8	2,350	455,668	----------
Harleigh-Brookwood Coal Co.												
Lawrence,	Schulykill,	366,559	49,820	----------	416,379	286	704	----------	8	----------	169,112	39,895
East Bear Ridge Coal Co.												
East Bear Ridge,	Schuylkill,	216,748	22,500	3,128	242,376	274	439	2	4	----------	94,925	200
Midvalley Coal Co.												
Midvalley,	Columbia,	178,443	54,377	3,102	235,922	272	404	1	6	----------	128,335	15,825
W. R. McTurk Coal Co.												
Girard,	Schuylkill,	90,717	31,200	----------	121,917	236	292	----------	1	----------	46,500	5,500

TABLE 2.—PART 1.—Continued

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
Reppller Coal Co.												
Locust Run Washery,	Columbia,	45,547	340	5	45,892	98	60					
Locust Dale Coal Co.												
Locust Dale Washery,	Columbia,	42,689	475	60	43,224	93	46					
Laurel Coal Mining Co.												
Bickel,	Schuylkill,	42,196	520		42,716	285	73					
Grand Totals,		3,512,462	697,193	55,881	4,265,536		7,621	24	121	4,325	1,747,742	209,730

*Coal prepared at Locust Gap breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage						Air compressors	
		Boilers				Engines											Locomotives						
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface									
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Northumberland, Columbia, Schuylkill,	----	--------	104	14,250	236	40,152	----	--------	11	2,300	104	81,881	18	14,854	334	----	16	4	13	19	19,762
Lehigh Valley Coal Co.,	Columbia, Northumberland,	---	--------	22	5,050	40	6,700	----	--------	5	1,050	14	15,000	6	11,500	87	1	12	----	21	4	875
Harleigh-Brookwood Coal Co.,	Schuylkill,	---	--------	8	2,800	5	2,525	----	--------	----	--------	7	18,000	3	2,200	44	----	5	----	7	3	3,900
Midvalley Coal Co.,	Columbia,	---	--------	18	3,555	7	633	2	100	2	100	9	12,256	9	5,000	44	1	7	----	2	2	1,600
East Bear Ridge Coal Co.,	Schuylkill,	---	--------	8	1,300	6	1,100	----	--------	2	440	4	2,500	4	2,000	19	----	2	----	5	3	1,600
W. R. McTurk Coal Co.,	Schuylkill,	---	--------	5	2,250	20	1,900	----	--------	1	50	3	6,200	2	2,800	17	----	4	----	2	1	2,400
Laurel Coal Mining Co.,	Schuylkill,	---	--------	1	90	----	--------	----	--------	----	--------	1	1,000	----	--------	9	----	----	----	----	1	190
Reppler Coal Co.,	Columbia,	---	--------	1	150	----	--------	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Locust Dale Coal Co.,	Columbia,	---	--------	1	150	----	--------	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Totals,		---	--------	168	29,595	314	52,810	2	100	21	3,940	142	136,837	42	38,354	554	2	46	4	50	33	30,327

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Northumberland, Columbia, Schuylkill,	11	70	------	900	111	------	------	7	------	139	59	119	214	44	------	32	758	2,464
Lehigh Valley Coal Co.,	Northumberland, Columbia,	7	32	------	475	170	------	------	24	24	34	21	22	47	13	6	16	142	1,033
Harleigh-Brookwood Coal Co.,	Schuylkill,	2	3	7	188	26	------	6	7	7	29	6	5	27	22	5	------	82	422
Midvalley Coal Co.,	Columbia,	2	3	------	107	32	------	------	4	3	18	10	3	15	6	------	2	15	220
East Bear Ridge Coal Co.,	Schuylkill,	1	7	------	130	39	------	------	5	5	11	3	3	25	5	2	2	65	303
W. R. McTurk Coal Co.,	Schuylkill,	1	3	------	55	4	------	------	2	2	6	2	2	60	5	1	4	4	151
Laurel Coal Mining Co.,	Schuylkill,	1	1	------	37	1	------	------	------	------	4	1	1	------	------	------	1	1	48
Reppler Coal Co.,	Columbia,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Locust Dale Coal Co.,	Columbia,	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals.		25	119	7	1,892	383	------	6	49	41	241	102	155	388	95	14	57	1,067	4,641

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading coal and Iron Co.,	Northumberland, Columbia, Schuylkill,	--------	7	16	57	222	10	10	33	169	35	1,047	1,606	4,070
Lehigh Valley Coal Co.,	Northumberland, Columbia,	--------	4	6	31	59	7	[illegible]	31	4	7	343	500	1,533
Harleigh-Brookwood Coal Co.,	Schuylkill,	1	1	2	12	47	3	2	37	8	4	165	282	704
Midvalley Coal Co.,	Columbia,	1	2	3	4	23	5	3	--------	10	3	130	184	404
East Bear Ridge Coal Co.,	Schuylkill,	1	1	4	12	20	2	5	12	4	5	70	136	439
W. R. McTurk Coal Co.,	Schuylkill,	1	1	2	8	23	4	2	10	6	3	81	141	292
Laurel Coal Mining Co.,	Schuylkill,	1	--------	1	2	2	2	--------	--------	--------	1	16	25	73
Repplier Coal Co.,	Columbia,	1	--------	1	4	3	1	--------	4	--------	1	45	60	60
Locust Dale Coal Co.,	Columbia,	1	--------	1	4	3	1	--------	4	--------	1	31	46	46
Totals,	--------	7	16	36	134	402	35	30	131	201	60	1,928	2,980	7,621

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Northumberland, Columbia, Schuylkill,	26	23	24	24	24	24	21	25	10	25	23	26	275
Lehigh Valley Coal Co.,	Columbia, Northumberland	26	22	21	23	24	25	26	25	11	24	22	25	274
Harleigh-Brookwood Coal Co.,	Schuylkill,	25	24	25	25	25	26	25	26	10	25	24	26	286
Midvalley Coal Co.,	Columbia,	26	22	19	22	24	26	26	24	11	25	22	25	272
East Bear Ridge Coal Co.,	Schuylkill,	25	21	25	23	24	24	24	25	10	25	23	25	274
W. R. McTurk Coal Co.,	Schuylkill,	24	24	17	23	24	26	24	22	--------	9	22	21	236
Laurel Coal Mining Co.,	Schuylkill,	26	24	27	25	24	26	26	25	10	25	22	25	285

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 13	John Crowley	American	Slatepicker	17	S			Bancroft	Schuylkill	Caught in dasher shaft of jig in breaker. Outside.
Feb. 14	Wally Russian	American	Driver	18	S			Locust Gap	Northumberland	Caught between cars on gangway.
19	Frank Amberovage	Polish	Miner	43	S			Gilberton	Schuylkill	Fall of coal at face of breast.
March 9	Harry Speidle	American	Contractor	35	M	1	9	East Bear Ridge	Schuylkill	Fall of top coal at face of gangway.
12	Sam Whitmer	American	Laborer	56	M	1		Locust Spring	Northumberland	Mine cars on plane. Outside.
31	William Donoth	American	Driver	35	M	1	2	Bast	Schuylkill	Mule falling on him on gangway.
April 3	James Clews	American	Miner	41	M	1		Continental Bank	Columbia	Rush of culm. Outside.
7	George Brassington	American	Carpenter	26	M	1	2	Midvalley	Columbia	Mine cars on gangway.
28	Joseph Gurness	Lithuanian	Miner	45	S			Bast	Schuylkill	Fall of top slate at face of chute.
May 5	Harry Snyder	American	Miner	41	M	1	4	Bast	Schuylkill	Falling off cage in shaft.
	Patrick Nary	American	Starter	53	M	1				
	Thomas Kilroy	American	Loader	45	M	1				
11	William Rice	Lithuanian	Miner	38	M	1	2	East Bear Ridge	Schuylkill	Rush of coal in counter chute.
June 15	Simon Colishon	Lithuanian	Miner	35	M	1	4	Bast	Schuylkill	Suffocated by gas in breast.
	Alex Sepko	Lithuanian	Laborer	35	W					
July 15	Arthur Birmingham	American	Driver	18	S			Draper	Schuylkill	Electricity. Came in contact with trolley wire on gangway.
Aug. 4	John Grady	American	Roadman	37	S			Bast	Schuylkill	Caught between mine car and cement pillar on gangway.
18	Fred Klawitter	American	Miner	33	M	1	2	Sayre	Northumberland	Fall of top rock at face of slope.
19	Stany Kershack	Austrian	Laborer	42	S			Sayre	Northumberland	Fall of rock while timbering on gangway.
21	John Jackofski	Russian	Miner	39	M	1	2	Sayre	Northumberland	Falling down chute.
26	Anthony Gillis	Lithuanian	Miner	36	M	1	1	Bast	Schuylkill	Suffocated by gas in breast.
31	Adam Prechinsky	American	Miner	27	M	1	3	Boston Run	Schuylkill	Fall of coal in breast.
Dec. 1	Walter Smith	American	Repairman	22	M	1		Boston Run	Schuylkill	Caught in cog wheels of scraper line. Outside.
27	Calvin Weikle	American	Topman	19	S			Locust Spring	Northumberland	Mine cars at top of slope. Outside.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause and location of accident
Jan. 2	Wm. Myers,	American,	Miner,	36	M	Potts,	Columbia,	Premature blast—pushing charge into hole with iron scraper.
	Chas. Whynn,	American,	Miner,	34	M			
3	Peter Charneskie,	Slavonian,	Loco. engineer,	39	M	Midvalley,	Columbia,	Burned by rush of hot ashes in hopper. Outside.
	Irvin Minich,	American,	Timber cutter,	22	S	Bast,	Schuylkill,	Lifting bale of hay. Outside.
5	George Honicher,	German,	Stableman,	55	M	Locust Spring,	Northumberland,	Struck by piece of coal on gangway.
7	John Cress,	American,	Miner,	38	M	Locust Spring,	Northumberland,	Fall of coal at face of breast.
13	Conrad Grazen,	German,	Miner,	61	M	Locust Gap,	Northumberland,	Eye cut by piece of coal.
14	Joe Kerlavage,	Lithuanian,	Miner,	22	S	Lawrence,	Schuylkill,	Falling while coming down chute—infection.
15	August Panilam,	Lithuanian,	Miner,	36	M	Draper,	Schuylkill,	Struck by piece of coal.
17	George Wesner,	American,	Switchman,	21	S	Draper,	Schuylkill,	Caught between mine cars.
26	Victor Gedratis,	American,	Slatepicker,	17	S	Locust Spring,	Northumberland,	Falling again t edge of rock chute. Outside.
29	Joe Lokitus,	American,	Bottom man,	18	S	Locust Spring,	Northumberland,	Caught by wheel of car on gangway.
31	George Patterson,	American,	Driver,	24	S	Bast,	Schuylkill,	Run over by cars—jumping off trip to speed up team.
	Peter Mancavage,	Lithuanian,	Miner,	48	M	Potts,	Columbia,	Flying piece of rock—drilling rock hole.
Feb. 2	James Doyle,	American,	Miner,	39	M	Locust Spring,	Northumberland,	Struck by piece of coal from blast on gangway.
	Wm. Skutches,	Lithuanian,	Miner,	38	S	Gilberton,	Schuylkill,	Burned by explosion of gas at face of chute.
4	Ed. Hanney,	American,	Chute boss,	44	M	Locust Spring,	Northumberland,	Falling on ice. Outside.
9	Chas. Abenis,	Polish,	Timberman,	46	W	Boston Run,	Schuylkill,	Struck by piece of coal.
	John C. Seplin,	American,	Miner,	58	M	Ba t,	Schuylkill,	Burned by explosion of gas at face of breast.
10	John Andzis,	Lithuanian,	Miner,	41	S.	Boston Run,	Schuylkill,	Lifting prop at face of breast.
13	John Casey,	American,	Bottomman,	43	M.	Bast,	Schuylkill,	Caught between cars at foot of shaft.
	Frank Kildock,	Lithuanian,	Miner,	33	M.	Locust Spring,	Northumberland,	Burned by explosion of gas at face of breast.
	Joe Pencavage,	Lithuanian,	Miner,	33	M.			
16	John Wentzel,	American,	Driver,	18	S.	Bast,	Schuylkill,	Caught between car hook and tail chain.
17	Steve Trout,	American,	Oiler,	18	S.	Locust Spring,	Northumberland,	Bumped by mine cars. Outside.
23	Peter Dillman,	American,	Laborer,	72	M.	Lawrence,	Schuylkill,	Falling on ice. Outside.

Feb.	26	Joe Mulacoutskie,	Lithuanian,	Timberman,	36	M.	Gilberton,	Schuylkill,	Cut by piece of coal—while removing material on manway.
		Stiney Analavage,	Polish,	Miner,	25	S.	Gilberton,	Schuylkill,	Falling down chute.
	28	Wally Daniels,	American,	Miner,	52	M.	Locust Run,	Columbia,	Flying coal from delayed blast.
March	2	Jerre Beaver,	American,	Refuse loader,	16	S.	Midvalley,	Columbia,	Falling off locomotive. Outside.
	6	Chas. Yonchock,	Polish,	Miner,	31	S.	Draper,	Schuylkill,	Struck by piece of coal.
	12	Mike Caprol,	Russian,	Laborer,	26	M.	Midvalley,	Columbia,	Rush of coal at chute.
		John Morakie,	Polish,	Miner,	40	S.	Locust Gap,	Northumberland,	Cut by piece of rock—lifting into car.
	13	Matt Mackeravage,	Lithuanian,	Slatepicker,	50	M.	Lawrence,	Schuylkill,	Struck by piece of coal on platform. Outside.
	19	Chas. Stine,	Lithuanian,	Miner,	49	M.	Gilberton,	Schuylkill,	Lifting heavy timber on gangway.
	23	Paul Smith,	Austrian,	Machine runner,	46	M.	Locust Gap,	Northumberland,	Three fingers blown off taking exploder off the wire.
	25	Joseph Bevan,	American,	Loader boss,	58	M.	Brown,	Schuylkill,	Cap exploded while putting fuse in it.
	29	John G. Wetzle,	American,	Loader,	19	S.	Potts,	Columbia,	Falling from car when brake stick broke. Outside.
	29	Wellington Helwig,	American,	Loader,	18	S.	Continental,	Columbia,	Collar failing—unloading.
	30	Elmer Williams,	American,	Electrician,	32	M.	Girard,	Schuylkill,	Falling down steps in pump room—stooped to get wrench.
April	6	Dan. Harvey,	American,	Miner,	43	M.	Locust Gap,	Northumberland,	Fall of coal at face of breast.
	8	Joe Bordell,	American,	Miner,	37	S.	Locust Gap,	Northumberland,	Struck by piece of coal that came down chute.
	20	Wm. B. McCarthy,	American,	Laborer,	48	M.	Potts,	Columbia,	Fall of rock—dressing down face after shot.
		George Alonis,	Lithuanian,	Timberman,	45	S.	Gilberton,	Schuylkill,	Explosion of dynamite cap—putting on piece of fuse.
	24	Wm. Moorcones,	American,	Slatepicker,	16	S.	Gilberton,	Schuylkill,	Falling in breaker. Outside.
	26	John W. Fielding,	English,	Laborer,	50	M.	Potts,	Columbia,	Struck by stick of timber. Outside.
May	6	Walt Overcott,	American,	Driver,	20	S.	Potts,	Columbia,	Mule stepping on foot.
	10	Peter Sankus,	Lithuanian,	Contractor,	25	S.	East Bear Ridge,	Schuylkill,	Struck by handle of jack hammer—drilling.
	12	Wm. Knock,	American,	Pumpman,	47	M.	Locust Spring,	Northumberland,	Cap of condenser fell on knee—taking cap off.
	14	Thos. Hogan,	American,	Miner,	36	W.	Locust Spring,	Northumberland,	Flying coal from pick.
		Andrew Wolfgang,	American,	Miner,	22	S.	Potts,	Columbia,	Struck by door while repairing it—door overbalanced by blast.
	20	John Minnich,	American,	Laborer,	68	W.	Locust Spring,	Northumberland,	Lifting heavy stone while working in deep ditch. Outside.
	25	Frank Bonis,	Italian,	Miner,	50	M.	Bast,	Schuylkill,	Fall of top slate on gangway.
		George Smolskie,	Lithuanian,	Miner,	36	M.	Gilberton,	Schuylkill,	Caught between mine car and timber on gangway.
	27	Walter Houser,	American,	Laborer,	21	S	Lawrence,	Schuylkill,	Struck by a piece of rock that rolled down chute. Outside.
	29	Claude Richards,	American,	Miner,	26	M	Lawrence,	Schuylkill,	Carrying timber.
		Simon Stancavage,	Lithuanian,	Driver,	20	S	East Bear Ridge,	Schuylkill,	Kicked by mule.
June	**2**	**John Hoban,**	American,	Bottomman,	30	S	East Bear Ridge,	Schuylkill,	Struck by wheel of car that broke and fell down slope.

TABLE 5.—Continued.

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause and location of accident
June 7	John Brown,	American,	Topman,	64	W	Locust Spring,	Northumberland,	Struck by bonnet of cage falling and striking him while loading timber. Outside.
12	Herbert Taylor,	American,	Laborer,	33	S	Gilberton,	Schuylkill,	Caught between mine cars. Outside.
15	Jos. Owen,	American,	Blacksmith,	18	S	Locust Spring,	Northumberland,	Sledge hammer in blacksmith shop. Outside.
19	Thomas Madden,	American,	Miner,	44	M	Locust Gap,	Northumberland,	Struck by piece of coal.
21	Len McGinn,	American,	Bottomman,,	33	M	Locust Spring,	Northumberland,	Caught between bumpers of mine cars.
24	Fred Smith,	American,	Timberman,	45	M	Bast,	Schuylkill,	Struck by a stick of timber—unloading.
30	John Pasko,	Austrian,	Driver,	26	S	Lawrence,	Schuylkill,	Squeezed by cars—fell off trip.
July 1	Christ Omlor,	American,	Laborer,	53	M	Potts,	Columbia,	Struck by a falling brick—unloading. Outside.
3	John Horbach,	American,	Miner,	30	S	Locust Spring,	Northumberland,	Struck by piece of coal that rolled down chute.
8	Chas Klagger,	German,	Miner,	51	M	Potts,	Columbia,	Lifting collar.
	Wm. Yodis,	Lithuanian,	Miner,	42	[illegible]	Potts,	Columbia,	Cut by slip of coal that fell while dressing rib after shot.
	Chas. Pennypacker,	American,	Miner,	51	M	Locust Gap,	Northumberland,	Fall of slate on gangway.
17	Peter Shober,	German,	Laborer,	60	M	Locust Gap,	Northumberland,	Kicked by mule on gangway.
July 20	George Artman,	American,	Miner,	30	M	Locust Spring,	Northumberland,	Struck by piece of coal while dressing face after shot.
21	George Kritskie,	Austrian,	Fireman,	40	M	Locust Spring,	Northumberland,	Scalded by steam from hot ashes in boiler house. Outside.
22	Wm. Kocker,	American,	Carpenter,	40	M	East Bear Ridge,	Schuylkill,	Falling while repairing chute in breaker.
24	Jos. Dabulas,	Polish,	Miner,	45	M	Locust Gap,	Northumberland,	Struck by piece of coal.
	Thomas Drulis,	Lithuanian,	Miner,	50	M	Bast,	Schuylkill,	Fall of coal on gangway.
27	Wm. Diamond,	Lithuanian,	Miner,	32	M	Bast,	Schuylkill,	Struck by lump of coal that rolled down chute.
Aug. 2	Jos. Galdo,	Polish,	Laborer,	36	M	Midvalley,	Columbia,	Fall of coal on gangway.
4	Malcolm Green,	American,	Driver,	17	S	Bast,	Schuylkill,	Kicked by mule, on gangway.
10	Dominick Bulinski,	Polish,	Miner,	42	M	Midvalley,	Columbia,	Squeezed between car and prop on chamber road.
18	Joe Labages,	Austrian,	Miner,	35	M	Lawrence,	Schuylkill,	Burned by explosion of gas at face of chute.
	Robert Farnesworth,	American,	Laborer,	18	S	Lawrence,	Schuylkill,	Squeezed between rock dumper and post. Outside.

Aug.	26	Enoch Chiponones,	Lithuanian,	Miner,	30	S	Gilberton,	Schuylkill,	Fall of top coal on gangway.
	31	Math Spelius,	American,	Topman,	28	S	Potts,	Columbia,	Caught under wheel of mine car. Outside.
Sept.	21	Ed. Burns,	American,	Miner,	44	S	Boston Run,	Schuylkill,	Struck by piece of coal that rolled down slope.
	25	John Reese,	American,	Laborer,	40	S	Potts,	Columbia,	Falling against mine car on gangway—unloading timber.
		John Kelzel,	Polish,	Miner,	50	S	Locust Gap,	Northumberland,	Struck by piece of coal at chute.
	29	Earl Nutter,	American,	Miner,	22	S	Locust Spring,	Northumberland,	Struck by piece of coal that rolled down manway.
		Wm. Neisinder,	American,	Miner,	38	M	Potts,	Columbia,	Falling against steps while taking plank up manway.
Oct.	4	Thos. Head,	American,	Loader,	32	M	Potts,	Columbia,	Cut by bar while barring lump of coal at check.
	11	Nick Sebastian,	American,	Starter,	23	S	Locust Spring,	Northumberland,	Falling when ladder broke which he was ascending to get in manway.
	12	Jos. Morris,	American,	Driver,	18	S	Sayre,	Northumberland,	Falling under cars on gangway.
		Nick Cunningham,	American,	Starter,	40	M	Bast,	Schuylkill,	Cut by piece of rock while barring rock in chute.
	14	Thos Caufield,	American,	Laborer,	60	S	Gilberton,	Schuylkill,	Falling against mine car. Outside.
	21	Wm. Boyer,	American,	Loader,	22	S	Locust Spring,	Northumberland,	Struck by piece of coal at battery.
	22	James Cartwright,	American,	Laborer,	22	S	Midvalley,	Columbia,	Ignited gasoline that he was carrying when he struck match to light cigarette. Outside.
		Lester Wrich,	American,	Slatepicker,	16	S	Locust Spring,	Northumberland,	Struck by rope in breaker. Outside.
	23	Frank Stabler,	American,	Rock loader,	49	M	Bancroft,	Schuylkill,	Caught between mine cars. Outside.
	30	Robert Carl,	American,	Driver,	40	S	Locust Gap,	Northumberland,	Caught between coupling and side hook of car.
	31	James Kelley,	American,	Laborer,	26	M	Gilberton,	Schuylkill,	Caught between car and plank—unloading. Outside.
Nov.	3	Wm. Stetz,	Polish,	Timberman,	33	S	Sayre,	Northumberland,	Bumped between mine cars.
	4	Joe Greylock,	Austrian,	Laborer,	43	M	Sayre,	Northumberland,	Caught by door of railroad car. Outside.
	5	Joe Savage,	Lithuanian,	Driver,	19	S	Potts,	Columbia,	Falling under cars.
	12	Geo. Scheuren,	American,	Driver,	19	S	Locust Gap,	Northumberland,	Bumped against collar while riding up slope.
	15	Math. Romanofsky,	Lithuanian,	Miner,	39	M	Boston Run,	Schuylkill,	Falling while going up ladder into chute.
	18	Jos. Wasalefski,	Polish,	Miner,	26	S	Locust Gap,	Northumberland,	Struck by piece of rock that slid down drill—barring down loose rock.
	27	Patrick Gaughan,	American,	Doorman,	49	S	Bast,	Schuylkill,	Struck by piece of coal that fell off car passing through door.
Dec.	2	Wm. Keller,	American,	Miner,	36	M	Centralia,	Columbia,	Delayed blast.
		Joe Tomlunas,	American,	Laborer,	19	S	Locust Spring,	Northumberland,	Falling collar—blocking set of timber.
	9	W. Mozes,	Lithuanian,	Miner,	34	M	Potts,	Columbia,	Cut by axe while making wedge.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Dec. 11	John Paicocovich,	American,	Motorman's helper	18	S	Continental,	Columbia,	Caught under motor—trying to get on motor.
	Thos. Owens,	American,	Miner,	40	M	Locust Gap,	Northumberland,	Falling while coming down breast.
17	John Casey,	American,	Slatepicker,	56	M	Potts,	Columbia,	Falling down steps in breaker. Outside.
21	Elias Zerby,	American,	Carpenter,	43	M	Bancroft,	Schuylkill,	Falling while getting down from timber. Outside.
	George Berrutus,	Lithuanian,	Timberman,	37	M	Draper,	Schuylkill,	Cut by axe while making wedge.
	Stanley Gusak,	American,	Slatepicker,	17	S	Locust Spring,	Northumberland,	Eye injured by dirt while cleaning chute in breaker. Outside.
	John Halona,	Slavonian,	Miner,	41	M	Locust Gap,	Northumberland,	Fall of coal at face of breast.
23	Leo Purcell,	American,	Laborer,	20	S	Centralia,	Columbia,	Caught between mine cars.
	John McHugh,	American,	Loader,	24	S	Locust Spring,	Northumberland,	Falling while holding back on spreader to unhitch team.
30	Boland Cleaver,	American,	Loader,	27	S	Potts,	Columbia,	Carrying timber up chute.
	Math Razinskey,	Lithuanian,	Miner,	42	W	Boston Run,	Schuylkill,	Struck by piece of coal that came down breast.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Centralia, May 4 and 5. The Board of Examiners was composed of William Reid, Inspector, Centralia; H. J. Heffner, Superintendent, Centralia; John Meredith, Miner, Ashland; James Price, Miner, Ashland.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Harry Norman Foulk, Robert J. Davis, John H. Morgan, Frackville; Frank Oestreich, Richard F. Scanlan, Francis O'Donnell, John Meredith, Ashland; Henry G. Felker, William Francis Farrell, John Moran, Locust Gap.

ASSISTANT MINE FOREMEN

Frank J. Walsh, William Campbell Morgan, William James Richards, Fred R. Wagner, Frackville; John F. Murray, George W. Conrad, George McElhenny, Thomas Francis Kane, John J. Dempsey, James E. Doyle, Edward Ryan, Patrick J. Gerrity, John J. Smolke, Edward F. Burke, Thomas Liddicote, James Vincent Flannery, David Walsh, John J. Chapman, Michael I. Reilly, Martin Walsh, Centralia; Edward J. Devine, William G. Wallace, Edward J. Canfield, James Ahearn, Ashland; Irvin Ayres, Jacob Davis, Mount Carmel; John P. Manley, Frederick Yentsch, Raymond William Minnich, Locust Gap; William J. Fennessy, Locust Dale; William E. Clemson, St. Nicholas.

1920

TWENTY-THIRD DISTRICT

NORTHUMBERLAND COUNTY

B. I. Evans, Inspector, Mount Carmel

SUMMARY OF STATISTICS

Collieries in operation (breakers),	9
Washeries in operation,	2
Mines in district,	19
Gaseous mines in operation,	7
Non-gaseous mines in operation,	12
Tons of coal shipped to market,	2,174,086
Tons used at mines for steam and heat,	382,534
Tons sold to local trade and used by employes,	56,913
Tons produced (gross),	2,613,533
Persons employed inside,	3,706
Persons employed outside,	1,733
Persons employed inside between 16 and 21 years,	290
Persons employed outside between 14 and 21 years,	539
Fatal accidents inside,	15
Fatal accidents outside,	3
Non-fatal accidents inside,	39
Non-fatal accidents outside,	12
Tons produced per fatal accident inside,	133,129
Tons produced per fatal accident inside and outside,	159,755
Persons employed per fatal accident inside,	247
Persons employed per fatal accident outside,	577
Persons employed per fatal accident inside and outside,	302
Persons employed per non-fatal accident inside,	95
Persons employed per non-fatal accident outside,	144
Persons employed per non-fatal accident inside and outside,	106
Wives made widows,	11
Children made orphans,	34
Steam locomotives outside,	18
Compressed air locomotives inside,	1
Electric motors inside,	34

Cylindrical boilers,	1
Tubular boilers,	112
Steam engines of all classes,	259
Internal combustion engines (gas),	1
Electric dynamos,	12
Pumps of all classes,	176
Pumps delivering water to surface,	44
Air compressors,	13
Fans in use,	22

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Susquehanna Collieries Company,	1,149,642
Philadelphia and Reading Coal and Iron Company,	553,783
Colonial Colliery Company,	283,060
Greenough Red Ash Coal Company,	213,323
Excelsior Coal Company,	193,000
Enterprise Coal Company,	150,152
Shamokin Red Ash Coal Company,	70,573
Total,	2,613,533

Production by Counties

Northumberland,	2,613,533

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Susquehanna Collieries Co.,	9	1	10	30	10	40	93,243	31,081	1,468	598	2,066	166	598	49	60
Philadelphia and Reading Coal and Iron Co.,	4	------	4	4	1	5	138,445	138,445	1,019	366	1,385	254	------	255	366
Colonial Colliery Co.,	1	1	2	2	------	2	283,060	141,530	386	226	612	386	226	193	------
Greenough Red Ash Coal Co.,	1	------	1	1	------	1	213,323	213,323	331	149	480	331	------	331	------
Enterprise Coal Co.,	------	1	1	2	1	3	150,152	50,050	323	183	506	------	183	161	183
Other Operators—No accidents,	------	------	------	------	------	------	------	------	179	211	390	------	------	------	------
Totals and averages,	15	3	18	39	12	51	159,755	61,444	3,706	1,733	5,439	247	577	95	144

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Susquehanna Collieries Co.						
Pennsylvania,	Northumberland,	Robert A. Quin,	Wilkes-Barre,	D. V. Randall,	Shamokin,	Pennsylvania
Richards,						
Scott,						
Hickory Ridge Washery,						
Philadelphia and Reading Coal and Iron Co.						
Alaska,	Northumberland,	George B. Hadesty,	Pottsville,	W. A. Seitzinger,	Mount Carmel,	P. & R.
Reliance,						
Colonial Collieries Co.						
Natalie,	Northumberland,	T. R. Jones,	Frackville,	G. J. Jones,	Mount Carmel,	P. & R.
Greenough Red Ash Coal Co.						
Greenough,	Northumberland,	T. R. Jones,	Frackville,	G. J. Jones,	Mount Carmel,	P. & R.
Excelsior Coal Co.						
Corbin,	Northumberland,	G. W. Robertson,	Shamokin,	J. P. Reighard,	Shamokin,	P. & R.
Enterprise Coal Co.						
Enterprise,	Northumberland,	W. L. Connell,	Scranton,			P. & R.
Shamokin Red Ash Coal Co.						
Evans Washery,	Northumberland,	D. H. McGee,	Shamokin,	S. E. McGee,	Mount Carmel,	Pennsylvania

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Susquehanna Collieries Co.												
Pennsylvania,	Northumberland	303,967	47,834	6,498	358,299	265	706	5	10	1,350	28,883	141,150
Richards,	Northumberland	183,532	50,906	24	234,522	272	626	1	6	----------	47,009	110,608
Scott,*	Northumberland	270,976	62,503	6,131	339,610	270	713	4	23	700	50,775	170,525
	Northumberland	758,475	161,303	12,653	932,431	--------	2,045	10	39	2,050	126,667	422,283
Hickory Ridge Washery,	Northumberland	183,334	33,877	----------	217,211	--------	21	--------	1	----------	----------	----------
Totals,	----------	941,809	195,180	12,653	1,149,642	--------	2,066	10	40	2,050	126,667	422,283
Philadelphia and Reading Coal and Iron Co.												
Alaska,	Northumberland	262,900	33,982	----------	296,882	272	773	4	3	340	223,060	14,085
Reliance,	Northumberland	179,784	38,518	38,599	256,901	274	612	--------	2	45	141,600	120,450
Totals,	----------	442,684	72,500	38,599	553,783	--------	1,385	4	5	385	364,660	134,535
Colonial Colliery Co.												
Natalie,	Northumberland,	249,761	32,540	759	283,060	265	612	2	2	----------	44,270	142,700
Greenough Red Ash Coal Co.												
Greenough,	Northumberland,	179,296	30,334	3,693	213,323	278	480	1	1	----------	60,273	45,285
Excelsior Coal Co.												
Corbin,	Northumberland,	179,250	13,000	750	193,000	263	334	--------	--------	41,000	9,000	61,000
Enterprise Coal Co.												
Enterprise,	Northumberland,	113,713	35,980	459	150,152	257	506	1	3	37,175	11,840	75,347
Shamokin Red Ash Coal Co.												
Evans Washery,	Northumberland,	67,573	3,000	----------	70,573	202	56	--------	--------	----------	----------	----------
Grand totals,	----------	2,174,086	382,534	56,913	2,613,533	--------	5,439	18	51	80,610	616,710	881,150

*Hickory Ridge consolidated with Scott Colliery.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Susquehanna Collieries Co..	Northumberland,	----	--------	54	6,823	146	10,271	----	--------	4	895	51	20,276	24	4,188	136	----	7	----	18	4	2,771
Philadelphia and Reading Coal and Iron Co.. --		----	--------	26	3,950	70	7,082	----	--------	4	545	41	35,125	8	4,093	124	----	2	1	5	3	5 5'4
Colonial Colliery Co.. ----		----	--------	4	1,000	4	1,040	----	--------	----	--------	10	9,200	5	5,550	58	----	5	----	7	3	2,200
Greenough Red Ash Coal Co.. ----------		1	250	10	1,500	15	1,950	----	--------	2	200	15	8,500	2	1,200	53	----	----	----	----	2	800
Excelsior Coal Co.. ------		----	--------	6	850	16	457	1	30	----	--------	9	720	3	580	43	----	4	----	----	----	----------
Enterprise Coal Co.. ----		----	--------	10	2,500	8	713	----	--------	2	260	6	9,540	2	9,540	43	----	----	----	4	1	2,450
Shamokin Red Ash Coal Co.. ----------		----	--------	2	300	1	100	----	--------	----	--------	----	--------	----	--------	----	----	----	----	----	----	--------
Totals, ----------	----------	1	250	112	16,923	259	21,631	1	30	12	1,900	132	83,361	44	25,101	457	----	18	1	34	13	13,775

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiecmen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Susquehanna Collieries Co.,	Northumberland	3	9	34	773	57	------	------	25	22	79	20	33	82	23	5	12	291	1,468
Philadelphia and Reading Coal and Iron Co.,	Northumberland	3	16	------	556	84	------	------	4	------	79	7	21	8	10	------	13	218	1,019
Colonial Colliery Co.,	Northumberland	4	------	2	220	16	------	------	5	5	25	4	7	5	4	------	------	89	386
Greenough Red Ash Coal Co.,	Northumberland	1	4	2	170	15	------	------	------	------	46	3	3	10	16	------	1	60	331
Excelsior Coal Co.,	Northumberland	1	3	3	115	14	------	------	------	------	26	2	2	2	2	------	------	9	179
Enterprise Coal Co.,	Northumberland	1	5	------	177	4	------	------	7	2	38	7	6	4	14	4	3	51	323
Shamokin Red Ash Coal Co., Evans Washery,	Northumberland	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Totals,		13	37	41	2,011	190	------	------	41	29	293	43	72	111	69	9	29	718	3,706

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Susquehanna Collieries Co.,	Northumberland	1	4	13	25	86	21	5	53	25	21	344	598	2,066
Philadelphia and Reading Coal and Iron Co.,	Northumberland	--------	2	4	19	48	2	4	32	24	12	219	366	1,385
Colonial Colliery Co.,	Northumberland	1	1	4	16	23	9	5	22	10	3	132	226	612
Greenough Red Ash Coal Co.,	Northumberland	1	1	3	6	23	2	1	22	2	3	85	149	480
Excelsior Coal Co.,	Northumberland	1	1	2	7	16	2	1	9	9	2	105	155	334
Enterprise Coal Co.,	Northumberland	--------	1	5	9	31	1	--------	46	6	3	81	183	506
Shamokin Red Ash Coal Co., Evans Washery,	Northumberland	1	1	1	--------	3	--------	--------	12	----------	1	37	56	56
Totals,	----------	5	11	32	82	230	37	16	196	76	45	1,003	1,733	5,439

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Susquehanna Collieries Co.,	Northumberland	23	23	23	24	24	24	24	24	11	23	23	23	269
Philadelphia and Reading Coal and Iron Co.,	Northumberland	23	23	24	25	23	23	26	25	11	25	23	22	273
Colonial Colliery Co.,	Northumberland	24	20	18	23	24	26	26	25	9	25	20	25	265
Greenough Red Ash Coal Co.,	Northumberland	26	22	25	23	24	26	26	25	9	25	22	25	278
Excelsior Coal Co.,	Northumberland	24	23	23	23	24	23	21	25	24	4	24	25	263
Enterprise Coal Co.,	Northumberland	23	23	22	22	24	23	22	24	5	24	21	24	257

TABLE 4—Fatal accidents inside and outside

Date		Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphan	Colliery	County	Cause and location of accident
Jan.	1	William J. Moore,	American,	Chargeman,	43	M	1	2	Pennsylvania,		Falling down shaft—inspecting signal line.
	6	Martin Whichotus.,	Polish,	Miner,	39	M	1	5	Alaska,		Fall of top slate—skipping pillar.
	5	Andrew Pluktko,	Russian,	Miner,	52	S			Alaska,		Fall of slate in pillar work.
	15	William Kervitski,	Polish,	Miner,	36	M	1	5	Scott,		Flying coal from blast on gangway.
Mar.	3	Peter Dovak,	Austrian,	Stable boss,	40	M	1	6	Greenough,		Kicked by mule.
	30	Frank Lucas,	Lithuanian,	Miner,	30	M	1		Scott,		Bumped between cars on gangway.
April	13	Anthony Lacowitcz,	American,	Laborer,	18	S			Scott,		Cars at foot of breaker shaft. Outside.
	17	Merrill Troutman,	American,	Laborer,	21	M	1	2	Enterprise,		Derailed cars on plane—coupling broke. Outside.
May	6	Peter Gillan,	American,	Miner,	33	M	1	4	Alaska,		Fall of slate at face of breast.
June	1	Eli Corak,	Slavonian,	Shaft foreman,	28	M	1	1	Pennsylvania,	Northumberland.	Falling down shaft.
July	27	Anthony Katarski,	Polish,	Miner,	40	M	1	5	Scott,		Fall of slate in gangway.
Aug.	2	James Haggerty,	American,	Laborer,	39	S			Pennsylvania,		Cars at bottom of slope.
	12	Leo Hall,	American,	Laborer,	21	S			Alaska,		Dragged by mule on gangway; thrown off when mule stumbled.
Nov.	8	John Senock,	Russian,	Carloader,	35	M	1	3	Natalie,		Thrown under railroad car while fixing brake, when other cars bumped into it. Outside.
Dec.	7	Andrew Hester,	American,	Laborer,	33	S			Richards,		Falling down slope.
	9	John Bucko,	Magyar,	Miner,	55	M	1	1	Pennsylvania,		Falling brattice boards on gangway—taking down boards through rock hole to counter gangway.
	11	Anthony Drogalis,	Lithuanian,	Laborer,	50	S			Pennsylvania,		Caught by descending car at bottom of slope.
	14	John Petro,	Slavonian,	Driver,	17	S			Natalie,		Runaway car on slope—walking up slope with mule.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 2	Mat Murdock,	Lithuanian,	Miner,	50	M	Alaska,	Northumberland.	Fall of coal in heading.
5	William Coni,	Polish,	Runner,	20	S	Scott,		Caught between car and rib on gangway.
13	Dan Weaver,	American,	Repairman,	30	M	Reliance,		Struck by bar. Outside.
27	Joe Gorla,	Polish,	Miner,	50	M	Enterprise,		Caught by rush of coal in breast.
30	Charles Logan,	Irish,	Miner,	61	M	Richards,		Struck by piece of steel—cutting rail.
Feb. 6	Sumner Fisher,	American,	Carpenter,	39	M	Scott,		Bumped between railroad cars under breaker. Outside.
9	Peter Soditas,	Lithuanian,	Miner,	28	S	Pennsylvania,		Fall of coal in heading.
13	Ben Kalminski,	American,	Topman,	16	S	Pennsylvania,		Struck by piece of timber. Outside.
24	Tony Redolla,	Italian,	Miner,	27	M	Pennsylvania,		Struck by piece of slate at face of gangway.
Mar. 2	Joseph Tomasi,	Hungarian,	Miner,	36	M	Scott,		Fall of coal in pillar.
7	August Poremba,	American,	Driver,	20	S	Natalie,		Falling down slope.
9	Andrew Calaman,	Hungarian,	Miner,	36	M	Scott,		Fall of coal at face of breast.
16	Albert Herner,	American,	Miner,	59	M	Scott,		Fall of top slate in breast.
20	John Perry,	American,	Miner,	38	M	Richards,		Premature blast in heading.
April 3	Henry Hess,	American,	Conductor,	21	S	Enterprise,		Bumped between car and motor. Outside.
May 8	George Strausser,	American,	Laborer,	20	S	Scott,		Caught between bar and timber. Outside.
10	John Lutz,	Polish,	Miner,	33	S	Scott,		Fall of slate at face of gangway.
	Oscar Schrawder,	American,	Laborer,	23	M	Richards,		Bumped between motor and door on gangway.
15	Carman Masantonia,	American,	Driver,	18	S	Richards,		Run over by car—fell on rail.
19	Wm. Oram,	American,	Laborer,	56	M	Pennsylvania,		Kicked by mule. Outside.
June 1	Chas. Greeker,	Italian,	Miner,	33	M.	Pennsylvania,		Falling on gangway.
11	Roman Shillon,	Russian,	Miner,	31	M.	Greenough,		Rush of coal from chute.
18	Frank Puza,	Polish,	Miner,	34	M.	Pennsylvania,		Lifting timber on gangway.
29	Wally Moleski,	Polish,	Miner,	33	S.	Scott,		Burned by explosion of gas at face of breast.
	Anthony Rusanovitch,	Polish,	Miner,	33	M.			
30	Toford Pouser,	Lithuanian,	Miner,	51	S.	Richards,		Struck by piece of slate at face of slope.
July 2	Stany Bavaroskie,	Polish,	Miner,	33	M.	Scott,		Struck in eye by piece of metal from blacksmith's anvil.
7	Anthony Carmoskie,	American,	Miner,	40	S.	Reliance,		Caught between timber on gangway.
14	John Haluskie,	Polish,	Laborer,	49	M.	Scott,		Mule pulled car on hand—cleaning rail.
16	Anthony Homayak,	Polish,	Miner,	29	M.	Alaska,		Fall of slate at face of breast.
	Tony Tesoni,	Italian,	Miner,	25	S.	Pennsylvania,		Fall of coal in face of gangway.
19	Samuel Moyer,	American,	Timberman,	40	M.	Scott,		Dirt flew into eyes—hammering.

TABLE 5.—Continued

Date		Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
July	27	George Frye,	American,	Miner,	32	M.	Scott,		Struck by a piece of slate in heading.
	30	Vensil Orres,	Hungarian,	Miner,	31	M.	Scott,		Fall of slate at face of gangway.
Aug.	2	Fred Watkins,	American,	Driver,	17	S.	Scott,		Falling under dumper. Outside.
	5	Jacob Moyer,	American,	Miner,	36	M.	Scott,		Fall of coal at face of breast.
	25	Mike Polka,	Russian,	Loader,	32	S.	Scott,		Burned by gas at face of breast.
		Frank Savitskie,	Polish,	Miner,	39	S.	Scott,		Falling against plank at bottom of breast manway.
	28	Chas Conaghan,	American,	Miner,	56	S.	Alaska,		Fall of slate at face of pillar.
	30	William Evans,	American,	Bratticeman,	53	M.	Pennsylvania,		Struck by piece of sheet iron in chute—infection.
Oct.	9	Wally Albert,	Polish,	Miner,	43	M.	Enterprise,		Rerailing car.
	11	Theodore Sheynock,	Russian,	Miner,	58	M.	Pennsylvania,		Squeezed between car and concrete wall at bottom of slope.
	18	Joseph Matulevich,	Lithuanian,	Laborer,	38	S.	Richards,	Northumberland,	Struck by piece of slate in shaft.
	20	Staney Sempko,	Polish,	Miner,	36	S.	Scott,		Struck by bar—barring coal at face of breast.
	21	Peter Susnoski,	Lithuanian,	Miner,	38	M.	Scott,		Struck by piece of slate at face of breast.
	25	Frank Bogdon,	Polish,	Runner,	19	S.	Hickory Ridge,		Struck by rope that he was crossing. Outside.
Nov.	10	Earle Trefsger,	American,	Spragger,	19	S.	Scott,		Run over by car—spragging. Outside.
	10	Donald Howiter,	American,	Carpenter,	52	M.	Scott,		Caught in iron troughs. Repairing drag line. Outside.
	30	Bruno Verano,	Italian,	Driver,	21	S.	Natalie,		Kicked by mule.
Dec.	2	Stany Olshefskie,	Polish,	Slatepicker,	16	S.	Scott,		Struck by piece of board in breaker. Outside.
	13	Stany Oleskie,	American,	Jig runner,	19	S.	Pennsylvania,		Lifting brass grate. Outside.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Mount Carmel, May 4 and 5. The Board of Examiners was composed of B. I. Evans, Inspector, Mount Carmel; David V. Randall, Superintendent, Shamokin; Samuel Roberts, Miner, Mount Carmel; George Lloyd, Miner, Shamokin.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Thomas Price, James McHale, William Doyle, John Carmitchell. Strong; William Stanley Miles, Elmer Umlauf, Natalie.

ASSISTANT MINE FOREMEN

Frank Bieroski, Thomas Quin, John Sherman, Mount Carmel; Howard Sharp, Kulpmont; David Billman, Paxinos; John Swanko, Keiser.

1920

TWENTY-FOURTH DISTRICT

NORTHUMBERLAND COUNTY

P. J. Friel, Inspector, Shamokin

SUMMARY OF STATISTICS

Collieries in operation, (breakers),	10
Washeries in operation,	
Mines in district,	38
Gaseous mines in operation,	21
Non-gaseous mines in operation,	17
Tons of coal shipped to market,	2,061,404
Tons used at mines for steam and heat,	335,140
Tons sold to local trade and used by employes,	113,621
Tons produced (gross),	2,510,165
Persons employed inside,	3,597
Persons employed outside,	1,731
Persons employed inside between 16 and 21 years,	255
Persons employed outside between 14 and 21 years,	481
Fatal accidents inside,	18
Fatal accidents outside,	3
Non-fatal accidents inside,	60
Non-fatal accidents outside,	17
Tons produced per fatal accident inside,	139,454
Tons produced per fatal accident inside and outside,	119,532
Persons employed per fatal accident inside,	200
Persons employed per fatal accident outside,	577
Persons employed per fatal accident inside and outside,	254
Persons employed per non-fatal accident inside,	60
Persons employed per non-fatal accident outside,	102
Persons employed per non-fatal accident inside and outside,	69
Wives made widows,	14
Children made orphans,	13
Steam locomotives outside,	15
Electric motors inside,	20
Electric motors outside,	5
Gasoline locomotives inside,	1
Tubular boilers,	126
Steam engines of all classes,	312

Electric dynamos,	16
Pumps of all classes,	141
Pumps delivering water to surface,	46
Air compressors,	19
Fans in use,	31
New mines opened,	2
Old mines abandoned,	1

TABLE A

PRODUCTION OF COAL

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company,	1,583,998
Susquehanna Collieries Company,	486,659
Buck Ridge Coal Mining Company,	170,382
Trevorton Colliery Company,	138,457
Shipman Koal Company,	128,614
Slope Mountain Coal Company,	2,055
Total,	2,510,165

Production by Counties

Northumberland County,	2,510,165

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	7	1	8	44	7	51	226,285	36,000	2,242	1.027	3.269	320	1.027	51	147
Susquehanna Collieries Co.,	4	1	5	10	9	19	121,665	48,666	586	401	987	147	401	59	45
Buck Ridge Coal Mining Co.,	3	------	3	4	------	4	56,794	42,596	325	103	428	108	------	81	------
Trevorton Colliery Co.,	3	------	3	------	1	1	46,152	------	210	65	275	70	------	------	65
Shipman Koal Co.,	1	1	2	2	------	2	128,614	64,307	215	115	330	215	115	108	------
Slope Mountain Coal Co.,	------	------	------	------	------	------	------	------	19	20	39	------	------	------	------
Totals and averages,	18	3	21	60	17	77	139,454	41,836	3,597	1,731	5,328	200	577	60	102

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co.						
North Franklin	Northumberland	G. B. Hadesty	Pottsville	F. C. Caldwell, Division Supt.; John C. Brown, Inside District Supt.; Jos. P. Knapp, Outside District Supt.	Shamokin	P. & R.
Bear Valley						
Burnside						
Stirling						
Henry Clay						
Big Mountain						
Susquehanna Collieries Co.						
Cameron	Northumberland	R. A. Quin	Wilkes-Barre	D. V. Randall	Shamokin	Pennsylvania
Luke Fidler						
Buck Ridge Coal Mining Co.						
Buck Ridge	Northumberland	Raymond Lewis	Shamokin			Pennsylvania, P. & R.
Trevorton Colliery Co.						
Katherine	Northumberland	George H. Jones	Shamokin	Charles D. Reed	Shamokin	P. & R.
Shipman Koal Co.						
Colbert	Northumberland	B. F. James	Pottsville	Josiah Rhoads	Shamokin	Pennsylvania
Slope Mountain Coal Co.						
Slope Mountain	Northumberland	F. C. Hornstein	Shamokin			P. & R.

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
North Franklin	Northumberland	350,633	31,872	8,750	391,255	266	778	3	10	5,325	251,668	----------
Bear Valley	Northumberland	340,001	50,865	4,144	395,010	275	780	----------	12	12,750	230,981	----------
Burnside	Northumberland	334,800	67,331	28,518	430,649	271	708	1	7	59,600	112,132	----------
Stirling	Northumberland						228	----------	11	39,225	25,159	10,575
Henry Clay	Northumberland	252,552	61,978	52,554	367,084	269	404	3	6	5,725	24,469	31,609
Big Mountain	Northumberland						371	1	5	16,575	99,789	50
Totals	----------	1,277,986	212,046	93,966	1,583,998	----------	3,269	8	51	139,200	744,198	42,234
Susquehanna Collieries Co.												
Cameron	Northumberland	186,398	41,992	12,137	240,437	255	476	3	9	7,125	28,679	45,450
Luke Fidler	Northumberland	206,220	35,724	4,278	246,222	274	511	2	10	7,100	38,369	30,000
Totals	----------	392,618	77,626	16,415	486,659	----------	987	5	19	14,225	67,048	75,450
Buck Ridge Coal Mining Co.												
Buck Ridge	Northumberland	149,994	18,000	2,388	170,382	273	428	3	4	----------	142,350	525
Trevorton Colliery Co.												
Katherine	Northumberland	130,042	7,952	463	138,457	252	275	3	1	100	28,363	13,524
Shipman Koal Co.												
Colbert	Northumberland	109,025	19,200	389	128,614	253	230	2	2	----------	40,000	19,000
Slope Mountain Coal Co.												
Slope Mountain	Northumberland	1,739	316	----------	2,055	54	39	----------	----------	200	200	600
Grand totals	----------	2,061,404	335,140	113,621	2,510,165	----------	5,328	21	77	153,725	1,022,159	151,333

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.	Northumberland.	----	--------	67	[illegible]	150	19,994	----	--------	12	2,514	83	58,505	21	8,034	271	----	8	----	20	9	12,686
Susquehanna Collieries Co.		----	--------	39	[illegible]0	123	8,800	----	--------	3	300	30	14,877	17	2,821	98	----	4	----	4	4	3,150
Buck Ridge Coal Mining Co.		----	--------	9	[illegible]0	14	800	----	--------	----	--------	10	1,400	3	1,200	35	----	2	----	----	2	700
Trevorton Colliery Co.		----	--------	3	[illegible]00	9	610	----	--------	----	--------	13	7,150	3	500	28	1	----	----	----	3	4,800
Shipman Koal Co.		----	--------	6	[illegible]00	13	1,100	----	--------	1	100	4	3,720	1	840	25	----	1	----	1	1	300
Slope Mountain Coal Co.		----	--------	2	200	3	130	----	--------	----	--------	1	100	1	100	1	----	----	----	----	----	--------
Totals		----	--------	126	[illegible],610	312	31,434	----	--------	16	2,914	141	85,752	46	13,495	458	1	15	----	25	19	21,636

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Northumberland	9	68	------	1,087	192	------	------	7	------	127	22	64	109	28	------	24	505	2,242
Susquehanna Collieries Co.,	Northumberland	2	5	14	262	20	------	------	4	4	24	19	11	69	14	1	10	127	586
Buck Ridge Coal Mining Co.,	Northumberland	1	3	7	166	29	------	------	------	------	23	16	------	16	11	------	2	51	325
Trevorton Colliery Co.,	Northumberland	1	2	1	95	15	------	------	1	1	18	4	2	15	6	------	1	48	210
Shipman Koal Co.,	Northumberland	1	1	5	90	15	------	------	1	1	20	5	10	11	11	1	3	40	215
Slope Mountain Coal Co.,	Northumberland	1	------	------	9	7	------	------	------	------	2	------	------	------	------	------	------	------	19
Totals,		15	79	27	1,709	278	------	------	13	6	214	66	87	220	70	2	40	771	3,597

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Northumberland	--------	4	11	29	118	7	13	53	64	28	700	1,027	3,269
Susquehanna Collieries Co.,	Northumberland	--------	3	8	16	108	7	4	61	6	14	174	401	987
Buck Ridge Coal Mining Co.,	Northumberland	1	1	2	4	26	1	2	7	4	2	53	103	428
Trevorton Colliery Co.,	Northumberland	--------	2	1	3	9	1	1	--------	2	3	43	65	275
Shipman Koal Co.,	Northumberland	1	2	3	7	19	4	2	7	7	3	60	115	330
Slope Mountain Coal Co.,	Northumberland	1	1	1	1	7	--------	--------	3	--------	1	5	20	39
Totals.	--------	3	13	26	60	287	20	22	131	83	51	1,035	1,731	5,328

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Northumberland	26	23	24	23	24	25	22	25	6	25	22	25	270
Susquehanna Collieries Co..	Northumberland	25	24	18	22	23	26	25	25	6	25	21	25	265
Buck Ridge Coal Mining Co..	Northumberland	26	23	27	22	24	25	26	25	3	25	22	25	278
Trevorton Colliery Co.,	Northumberland	25	22	24	21	24	26	23	11	6	24	22	24	252
Shipman Koal Co.,	Northumberland	24	23	23	22	24	24	25	23	--------	20	22	23	253
Slope Mountain Coal Co.,	Northumberland	--------	--------	--------	--------	--------	--------	--------	--------	--------	13	21	20	54

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Jan. 3	Wally Panviconis,	Lithuanian,	Topman,	24	S.			Colbert,		Caught against prop by derailed mine car at top of slope.
26	William Krigbaum,	American,	Trackman,	62	M.	1		Cameron,		Run over by mine cars on gangway.
Feb. 3	John Tomcavage,	Polish,	Miner,	48	M.	1		Henry Clay,		Fall of rock in heading.
7	Jos. Sinchko,	Bohemian,	Driver,	19	S.			Katherine,		Caught between car and timber on gangway—riding on front end of trip.
20	Fred Klinger,	American,	Driver,	18	S.			Cameron,		Caught between mine car and rib of tunnel
21	Carl Klinger,	American,	Driver,	20	S.			North Franklin,		Crushed between mine car and timber.
27	Joseph Kodingo,	Russian,	Plane runner,	46	M.	1		Big Mountain,		Crushed by runaway mine cars on coal plane. Outside.
Mar. 16	Stany Morcavage,	Polish,	Miner,	40	S.			Luke Fidler,		Fall of rock while robbing pillars.
April 15	Dom. Ziskowskie,	Polish,	Miner,	36	M.	1	1	North Franklin,	Northumberland,	Flying rock from blast in tunnel.
21	Wally Lubreskie,	Polish,	Miner,	34	M.	1	3	Buck Ridge,		Fall of coal at face of breast.
	Joseph Trolitskie,	Russian,	Miner,	46	M.	1		Henry Clay,		Burned by explosion of gas at face of breast.
June 5	James Dorsett,	American,	Miner,	56	M.	1		Katherine,		Fall of rock at face of gangway.
July 10	John Pushka,	Polish,	Miner,	37	M.	1	1	Henry Clay,		Smothered in chute by rush of coal from battery.
12	Lester Ney,	American,	Miner,	26	M.	1		North Franklin,		Fall of coal at face of gangway.
Aug. 4	William Martin,	American,	Driver,	23	S.			Katherine,		Caught between mine car and timber on gangway.
Sept. 8	William James,	American,	Fireman,	49	M.	1	1	Colbert,		Scalded by steam in boiler-house. Outside.
Oct. 6	David Muir,	American,	Machinist,	50	M.	1	1	Luke Fidler,		Explosion of high pressure tank—repairing. Outside.
21	Bert Batman,	American,	Miner,	32	M.	1	3	Buck Ridge,		Smothered by black damp in breast.
	William Evans,	American,	Miner's laborer,	22	S.					
23	David Wolfgang,	American,	Miner,	24	M.	1		Burnside,		Fall of rock at face of robbing.
Nov. 23	Fred Spatzer,	American,	Miner,	34	M.	1	3	Cameron,		Overcome by powder smoke and fell down manway.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 3	Geo. Zurick,	Slavonian,	Miner,	62	M.	Stirling,	Northumberland,	Carrying prop up manway.
6	John Metzner,	Polish,	Miner,	58	M.	Stirling,		Fall of rock at face of work.
12	John Martincheck,	Polish,	Laborer,	56	M.	Colbert,		Falling off mine car on gangway.
14	Ralph Tropea, Jr.,	Italian,	Miner,	30	M.	North Franklin,		Slipping on lump of coal at face of work.
15	Frank Miscavage,	Polish,	Miner,	49	M.	Luke Fidler,		Fall of slate at face of work.
15	Mike Kashella,	Slavonian,	Timberman,	63	M.	Stirling,		Lifting props on gangway.
21	Geo. Konopic,	American,	Miner,	27	M.	Stirling,		Rock machine falling.
29	Jas. Brazzle,	Italian,	Miner's laborer,	25	M.	Burnside,		Fall of slate at face of breast.
Feb. 3	Steve Poseskie,	American,	Loader,	26	S.	Bear Valley,		Mine car on gangway.
5	Dom. Paronaie,	Italian,	Miner,	48	S.	Big Mountain,		Slipped and fell in chute.
7	Thos. Llewellyn,	American,	Miner,	25	S.	Colbert,		Fall of top at face of robbing.
17	John Lewa,	Russian,	Miner,	37	M.	Stirling,		Burned by explosion of gas at face of breast.
19	Albert Smith,	American,	Starter,	52	M.	Cameron,		Caught by mine cars.
20	Anth. Redavis,	American,	Miner's laborer,	36	S.	Big Mountain,		Pushing mine car—ruptured.
March 1	Theodore Smeck,	American,	Repairman,	18	S.	Cameron,		Caught in head-wheel. Outside.
9	Jos. Nasacuskie,	Polish,	Miner,	33	M.	Henry Clay,		Burned by explosion of gas at face of breast.
	Wally Zindroskie,	Polish,	Miner,	32	S.			
	Jos. Granfskie,	Polish,	Miner,	33	M.	North Franklin,		Lifting prop.
10	Mike Vergon,	Polish,	Loader boss,	26	M.	Luke Fidler,		Caught between locomotive and mine car. Outside.
23	Alex. Long,	American,	Laborer,	41	S.	Bear Valley,		Falling prop timber. Outside.
29	Mattis Balsk,	Polish,	Miner,	50	M.	Bear Valley,		Fall of coal at face of work.
30	John Peifer,	American,	Driver,	36	M.	Bear Valley,		Falling timber.
	Jos. Granofskie,	Polish,	Laborer,	69	M.	Henry Clay,		Struck by rock at rock chute. Outside.
15	Harry Nicholson,	English,	Miner,	46	S.	Stirling,		Burned by explosion of gas at face of breast.
	Enoch Kolonoskie,	Polish,	Jig tender,	17	S.	Luke Fidler,		Falling in breaker Outside.
17	Albert Wohoskie,	American,	Miner's laborer,	19	S.	Big Mountain,		Fall of rock.
20	John Cheslock,	Polish,	Miner,	31	M.	Buck Ridge,		Fall of slate at face of breast.
21	Geo. Shasti,	Polish,	Miner,	28	M.	Buck Ridge,		Fall of coal at face of breast.
	Jos. Donis,	Russian,	Miner,	45	M.	Henry Clay,		Burned by explosion of gas at face of breast.
May 9	Theo. Wyss,	American,	Topman,	37	S.	Henry Clay,		Cut by saw—sawing board. Outside.
14	John Readdy,	American,	Fire boss,	51	M.	Cameron,		Fall of rock on slope.
	Frank Brustetter,	American,	Driver,	24	M.			
22	John Stasney,	Polish,	Platform man,	18	S.	Cameron,		Iron bar falling. Outside.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
May 25	Wm. Venn,	American,	Loader,	40	M.	Bear Valley,		Struck by lump of coal coming down chute.
27	Richard Collins,	American,	Doorboy,	17	S.	Cameron,		Falling on gangway.
28	Anth. Bresko,	American,	Miner's laborer,	23	S.	Big Mountain,		Caught between prop and rock.
	Robert Welker,	American,	Loader,	19	S.	Cameron,		Struck by piece of rock flying from hammer. Outside.
June 3	Steve Crofella,	Slavonian,	Bottomman,	23	S.	Buck Ridge,		Run over by mine car—fell in trying to jump on same.
7	Wm. Grow,	American,	Miner,	36	S.	Bear Valley,		Fall of top roof at face of breast.
	John Irick,	American,	Miner,	61	M.	Bear Valley,		Fall of top roof on gangway.
11	Frank Culerskie,	Polish,	Miner,	28	M.	Stirling,		Struck by lump of coal coming down chute.
14	Andrew Novack,	Polish,	Dumpman,	57	S.	Burnside,		Falling off mine car. Outside.
18	John Hraboskie,	Slavonian,	Miner,	50	M.	North Franklin,		Fall of coal in breast.
25	Jos. Poploskie,	Polish,	Slatepicker,	17	S.	Luke Fidler,		Struck by piece of iron from blast to break up scrap iron. Outside.
July 9	Pat Glennan,	American,	Miner,	55	M.	Burnside,		Fall of slate on gangway.
10	Wm. Boyd,	American,	Laborer,	25	M.	Luke Fidler,		Fall of top clay in slope.
	Alex. Rauba,	Lithuanian,	Miner,	50	M.	Henry Clay,		Burned by explosion of gas near face of work.
28	Geo. Tabuskie,	Polish,	Miner,	47	M.	Luke Fidler,	Northumberland	Fall of rock.
Aug. 3	Jere Cox,	English,	Miner,	46	M.	Stirling,		Burned by explosion of gas.
	Steve Zurick,	Slavonian,	Miner,	45	M.			
5	H. M. Yeager,	American,	Miner,	48	S.	North Franklin,		Squeezed between mine car and platform on gangway.
9	Palmer Kramer,	American,	Bottomman,	21	M.	Bear Valley,		Caught under shaft cage.
13	Jos. Gusick,	Polish,	Miner,	48	M.	North Franklin,		Struck by lump of coal.
21	Thos. Davis,	American,	Laborer,	43	S.	Big Mountain,		Falling timber.
28	Ant. Stanchefskie,	American,	Laborer,	16	S.	Cameron,		Caught between mine cars. Outside.
Sept. 24	Jos. Kokonwskie,	Polish,	Miner,	62	M.	Stirling,		Struck by piece of rock flying from hammer.
29	Dom. Kosloskie,	Polish,	Miner,	50	M.	Burnside,		Struck by lump of coal.
Oct. 7	Steve Speck, Sr.,	Slavonian,	Miner,	43	M.	North Franklin,		Struck by rock flying from hammer.
22	Stany Margel,	Polish,	Miner,	36	M.	Buck Ridge,		Fall of coal in breast.
23	Jas. McCormick,	American,	Miner,	41	M.	Burnside,		Fall of rock on gangway.
	Patrick Curran,	American,	Miner,	36	S.	Burnside,		Fall of rock at face of robbing.
25	Jos. Pesoskie,	Polish,	Miner,	41	M.	Bear Valley,		Fall of slate.
28	Wm. Quinn,	American,	Laborer,	30	S.	Luke Fidler,		Fall of rock on gangway.
	Carl Yocum,	American,	Laborer,	24	S.	North Franklin,		Caught between mine cars. Outside.

Nov.	4	Geo. DeHoutant,	American,	Miner's laborer,	26	S.	Bear Valley,	Northumberland	Fall of slate in breast.
		Thos. Schmeltz,	American,	Clerk,	19	S.	Luke Fidler,		Falling off platform. Outside.
	9	Henry Nankeville,	American,	Laborer,	26	S.	Luke Fidler,		Caught in chain block. Outside.
	14	Henry Henninger,	American,	Bottomman,	34	M.	Cameron,		Falling down slope.
	15	Chas. Faust,	American,	Miner,	41	M.	Bear Valley,		Lifting piece of rock into buggy.
	19	Con. Troutman,	American,	Topman,	20	S.	Katherine,		Caught under mine cars. Outside.
	20	Jos. Housebeck,	Polish,	Laborer,	71	S.	North Franklin,		Lifting stone. Outside.
		Jos. Nedinskie,	Polish,	Miner,	63	M.	North Franklin,		Caught in chain block.
Dec.	6	Anth. Antis,	Polish,	Miner,	34	M.	Stirling,		Burned by explosion of gas at face of breast.
		Dan Santilla,	Italian,	Miner,	31	M.	North Franklin,		Burned by explosion of gas at face of breast.
	9	Fred Kublic,	American,	Bottomman,	24	S.	Luke Fidler,		Caught by derailed mine car.
	15	Edw. Miller,	American,	Laborer,	23	M.	Burnside,		Falling off railroad car. Outside.
	24	Frank Durdock,	Polish,	Miner,	35	M.	Bear Valley,		Flying coal from delayed blast.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Shamokin, May 4 and 5. The Board of Examiners was composed of P. J. Friel, Mine Inspector, Shamokin; Edward Brennan, Superintendent, Shamokin; Alexander J. Bradley, Miner, Shamokin; Nicholas Davis, Miner, Shamokin.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

John H. Fagley, William Morningwake, Daniel McGlynn, Henry Shovlin, Stanley F. Gulba, William E. Fegley, John Golden, Shamokin.

ASSISTANT MINE FOREMEN

William Kashner, Ranshaw; John A. Polash, James Madara, John J. McDevitt, Alex Choker, Raymond Nuss, James J. Richardson, Daniel E. Ramp, Lewis Paul, Walter Walburn, George Tuckett, Frank Eckman, Thomas I. Schickley, Shamokin.

1920

TWENTY-FIFTH DISTRICT

SCHUYLKILL AND DAUPHIN COUNTIES

Charles J. Price, Inspector, Lykens

SUMMARY OF STATISTICS

Collieries in operation (breakers),	6
Washeries in operation,	5
Mines in district,	24
Gaseous mines in operation,	24
Tons of coal shipped to market,	1,912,706
Tons used at mines for steam and heat,	410,455
Tons sold to local trade and used by employes,	49,992
Tons produced, (gross),	2,373,153
Persons employed inside,	3,485
Persons employed outside,	1,720
Persons employed inside between 16 and 21 years,	380
Persons employed outside between 14 and 21 years,	398
Fatal accidents inside,	12
Fatal accidents outside,	2
Non-fatal accidents inside,	50
Non-fatal accidents outside	17
Tons produced per fatal accident inside,	197,763
Tons produced per fatal accident inside and outside,	169,511
Persons employed per fatal accident inside,	290
Persons employed per fatal accident outside,	860
Persons employed per fatal accident inside and outside,	372
Persons employed per non-fatal accident inside,	70
Persons employed per non-fatal accident outside,	101
Persons employed per non-fatal accident inside and outside,	78
Wives made widows,	8
Children made orphans,	27
Steam locomotives outside,	25
Compressed air locomotives inside,	4
Electric motors inside,	29
Electric motors outside,	4
Tubular boilers,	167
Steam engines of all classes,	300
Electric dynamos,	15
Pumps of all classes,	145
Pumps delivering water to surface,	15
Air compressors,	25
Fans in use,	24

TABLE A.

PRODUCTION OF COAL

Operators	Gross Tons
Philadelphia and Reading Coal and Iron Company, ...	1,573,299
Susquehanna Collieries Company, ...	799,854
Total, ...	2,373,153

Production by Counties

Schuylkill, ...	1,573,299
Dauphin, ...	799,854
Total, ...	2,373,153

TABLE B.—Accidents inside and outside, number of tons of coal produced per accident inside, number of persons employed, number employed per accident

Operators	Fatal accidents			Serious non-fatal accidents			Tons produced per fatal accident inside	Tons produced per non-fatal accident inside	Employes inside	Employes outside	Total number of employes	Employes inside per fatal accident	Employes outside per fatal accident	Employes inside per non-fatal accident	Employes outside per non-fatal accident
	Inside	Outside	Total	Inside	Outside	Total									
Philadelphia and Reading Coal and Iron Co.,	6	2	8	27	10	37	262,217	58,270	2,315	1,141	3,456	386	570	86	114
Susquehanna Collieries Co.,	6	-----	6	23	7	30	133,309	34,776	1,170	579	1,749	195	----------	51	83
Totals and averages,	12	2	14	50	17	67	197,763	47,463	3,485	1,720	5,205	290	860	70	101

TABLE 1.—Operators, location of collieries, railroads

Operators and collieries	County	General superintendent	Post office	Superintendent	Post office	Railroad to mine
Philadelphia and Reading Coal and Iron Co. Lincoln, Brookside, Good Spring, Valley View, Middle Creek, Tower City, Rausch Creek Washery, Lincoln Washery,	Schuylkill,	E. E. Kaercher,	Pottsville,	M. J. Doyle, Div. Supt., R. J. Schneider, Inside Dist. Supt., Jos. H. Lee, Asst. Dist Supt.,	Tremont,	P. & R.
Susquehanna Collieries Co. Williamstown, Short Mountain, Williamstown Washery, Summit Slope Bank, Short Mountain Washery,	Dauphin,	Robert A. Quin,	Wilkes-Barre,	E. A. Van Horn,	Lykens,	Pennsylvania

TABLE 2.—PART 1.—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used

Operators and collieries	County	Tons shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production (gross tons)	Days worked	Employes	Fatal accidents	Serious non-fatal accidents	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
Philadelphia and Reading Coal and Iron Co.												
Lincoln,	Schuylkill,	266,699	69,796	8,102	344,597	265	997	3	9	7,050	122,991	10,175
Brookside,	Schuylkill,	266,933	32,940	6,205	306,078	279	923	1	11	950	130,004	50
Good Spring,	Schuylkill,	182,862	82,984	9,970	275,816	280	515	--------	7	--------	83,683	6,800
Valley View,††	Schuylkill,	96,598	--------	7	96,605	280††	295	--------	5	--------	87,514	886
Middle Creek,	Schuylkill,	179,828	9,050	--------	188,878	284	265	--------	2	--------	37,637	--------
Tower City,†	Schuylkill,	72,573	--------	--------	72,573	279†	259	3	3	--------	129,200	--------
		1,065,493	194,770	24,284	1,284,547	--------	3,254	7	37	8,000	591,089	17,911
Washeries												
Rausch Creek,	Schuylkill,	115,693	19,069	--------	134,762	272	139	1	--------	--------	2,705	--------
Lincoln,	Schuylkill,	153,990	--------	--------	153,990	273	63	--------	--------	--------	168	675
		269,683	19,069	--------	288,752	--------	202	1	--------	--------	2,873	675
Totals,		1,335,176	213,839	24,284	1,573,299	--------	3,456	8	37	8,000	593,962	18,586
Susquehanna Collieries Co.												
Williamstown,	Dauphin,	237,768	26,832	7,424	272,024	275	833	4	11	--------	101,935	137,925
Short Mountain,	Dauphin,	275,710	75,590	18,284	369,584	274	865	2	19	25	144,020	93,364
		513,478	102,422	25,708	641,608	--------	1,698	6	30	25	245,955	231,289
Washeries												
Williamstown,	Dauphin,	10,436	86,904	--------	97,340	375	22	--------	--------	--------	--------	--------
Summit Slope Bank,	Dauphin,	3,003	--------	--------	3,003	122	5	--------	--------	--------	--------	--------
Short Mountain,	Dauphin,	50,613	7,290	--------	57,903	304	24	--------	--------	--------	--------	--------
		64,052	94,194	--------	158,246	--------	51	--------	--------	--------	--------	--------
Totals,		577,530	196,616	25,708	799,854	--------	1,749	6	30	25	245,955	231,289
Grand totals,		1,912,706	410,455	49,992	2,373,153	--------	5,205	14	67	8,025	839,917	249,875

† Coal prepared at Brookside breaker. †† Coal prepared at Good Spring breaker.

TABLE 2.—PART 2.—Number and kinds of boilers, engines, locomotives, pumps and air compressors in use

Operators	County	Power plant										Pumps				Haulage					Air compressors	
		Boilers				Engines											Locomotives					
		Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)				Pumps delivering water to the surface								
		Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Total number	Total capacity in gallons per minute	Number	Approximate number of gallons per minute	Horses and mules	Gasoline	Steam	Air	Electric	Number	Total capacity in cubic feet per minute
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	----	--------	69	9,675	138	26,661	----	--------	9	6,085	79	49,067	8	5,514	309	----	17	4	21	17	13,027
Susquehanna Collieries Co.,	Dauphin,	----	--------	98	11,985	162	16,185	----	--------	6	1,780	66	28,250	7	8,403	163	----	8	----	12	8	14,650
Totals,		----	--------	167	21,660	300	42,846	----	--------	15	7,865	145	77,317	15	13,917	472	----	25	4	33	25	27,677

TABLE 3.—PART 1.—Number of each class of employes inside and outside

Operators	County	Inside																	Total inside
		Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine miners	Machine runners and scrapers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	9	72	------	734	198	------	------	7	------	115	97	174	74	9	------	15	811	2,315
Susquehanna Collieries Co.,	Dauphin,	2	9	20	402	71	------	------	8	8	78	8	23	287	60	2	10	182	1,170
Totals,		11	81	20	1,136	269	------	------	15	8	193	105	197	361	69	2	25	993	3,485

TABLE 3.—PART 1.—Continued.

Operators	County	Outside											Total outside	Grand total inside and outside
		Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes		
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,		7	12	44	172	9	15	22	14	16	830	1,141	3,456
Susquehanna Collieries Co.,	Dauphin,	2	2	10	36	146	24	9	15		12	323	579	1,749
Totals,		2	9	22	80	318	33	24	37	14	28	1,153	1,720	5,205

TABLE 3.—PART 2

Operators	County	Average number of days worked (not including washeries)												
		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Philadelphia and Reading Coal and Iron Co.,	Schuylkill,	25	20	24	24	23	26	25	26	11	25	23	26	278
Susquehanna Collieries Co.,	Dauphin,	25	22	26	23	23	25	24	24	9	25	23	26	275

TABLE 4—Fatal accidents inside and outside

Date	Name of person	Nationality	Occupation	Age	Married or single	Widows	Orphans	Colliery	County	Cause and location of accident
Feb. 4	Levi Miller,	American,	Miner,	20	S.			Tower City,	Schuylkill,	Falling down manway.
9	Isaac Zerby,	American,	Miner,	46	M.	1	1	Short Mountain	Dauphin,	Suffocated by gas in chute.
	Chester Forney,	American,	Miner,	35	M.	1	2			
20	William Spancake,	American,	Miner,	35	M.	1	5	Lincoln,	Schuylkill,	Fall of top slate at face of breast.
March 3	James Woffendon,	English,	Miner,	54	M.	1	1	Williamstown,	Dauphin,	Explosion of gas at pillar work.
10	Charles English,	American,	Miner,	53	M.	1	7	Tower City,	Schuylkill,	Suffocated by poisonous fumes from blast in breast.
May 10	Frederick E. Boniwitz,	American,	Laborer,	17	S.			Rausch Creek Washery,	Schuylkill,	Caught in machinery. Outside.
June 23	James Bechtel,	American,	Stableman,	69	W.		1	Brookside,	Schuylkill,	Caught by cars. Outside.
July 15	James Barr,	American,	Miner,	50	M.	1	1	Lincoln,	Schuylkill,	Fall of slate at pillar work.
20	John Devine,	American,	Miner,	33	S.			Tower City,	Schuylkill,	Fall of roof at face of breast.
Aug. 14	George Burdash,	Austrian,	Miner,	27	M.	1	1	Williamstown,	Dauphin,	Fall of top rock at face of breast.
	Charles Pahiro,	Greek,	Miner,	34	M.	1	8	Williamstown,	Dauphin,	Fall of top rock at face of breast.
24	George Katz,	American,	Machine helper,	25	S.			Williamstown,	Dauphin,	Fall of top slate at face of gangway.
Nov. 30	Harvey A. Weiss,	American,	Miner's laborer,	18	S.			Lincoln,	Schuylkill,	Fall of top slate at face of breast.

TABLE 5.—Serious non-fatal accidents inside and outside (disability not less than 60 days)

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
Jan. 12	Fred. Heilman,	American,	Laborer,	59	M.	Brookside,	Schuylkill,	Struck by prop. Outside.
16	George Crabb,	American,	Laborer,	58	M.	Brookside,	Schuylkill,	Thrown out of wagon that upset. Outside.
21	Wm. Welker,	American,	Carpenter,	29	M.	Short Mountain,	Dauphin,	Falling off platform. Outside.
	Geo. Spacht,	American,	Miner's laborer,	26	M.	Tower City,	Schuylkill,	Fall of top coal at face.
28	Chas. F. Bast,	American,	Miner,	46	M.	Williamstown,	Dauphin,	Fall of coal from face.
Feb. 4	Geo. Oxenrider, Sr.,	American,	Repairman,	50	M.	Brookside,	Schuylkill,	Burned by explosion of gas in manway.
7	Jos. Kramer,	American,	Oiler,	24	S.	Williamstown,	Dauphin,	Caught in breaker machinery. Outside.
10	Peter Mitchell,	Lithuanian,	Miner,	35	M.	Brookside,	Schuylkill,	Burned by explosion of gas at face.
	Frank Aukstankus,	Lithuanian,	Miner,	33	M.			
12	Elmer Workman,	American,	Laborer,	24	M.	Lincoln,	Schuylkill,	Caught between cars. Outside.
13	Lewis Kinder,	American,	Miner,	62	M.	Middle Creek,	Schuylkill,	Struck by piece of coal.
16	Wm. Byerly,	American,	Stableman,	50	M.	Short Mountain,	Dauphin,	Falling down steps. Outside.
18	Harry Shade,	American,	Laborer,	29	M.	Valley View,	Schuylkill,	Falling off roof. Outside.
24	Harry Carznitz,	American,	Miner,	38	M.	Short Mountain,	Dauphin,	Burned by explosion of gas in chamber.
March 1	Edw. Hosler,	American,	Stableman,	46	M.	Lincoln,	Schuylkill,	Caught by cars on slope.
2	Frank Stuppy,	American,	Lampman,	59	M.	Short Mountain,	Dauphin,	Burned by explosion of naptha at tank. Outside.
3	Jos. Bolton,	American,	Miner,	46	M.	Williamstown,	Dauphin,	Burned by explosion of gas at face.
15	Lloyd Bohr,	American,	Driver,	19	S.	Tower City,	Schuylkill,	Struck by tool box on gangway.
17	Adam Faust,	American,	Loader,	26	S.	Short Mountain,	Dauphin,	Caught between car and side of tunnel.
25	John E. Davey,	English,	Fire boss,	58	M.	Short Mountain,	Dauphin,	Falling down manway.
	Mark Machamer,	American,	Repairman,	30	M.	Brookside,	Schuylkill,	Struck by nail. Outside.
30	Adam Buffington,	American,	Driver,	24	M.	Short Mountain,	Dauphin,	Caught by derailed car on gangway.
	Wellington Williard,	American,	Miner,	27	M.	Williamstown,	Dauphin,	Burned by explosion of gas on gangway.
April 8	Arthur Hoffman,	American,	Miner	44	M.	Short Mountain,	Dauphin,	Fall of top slate at face of heading.
16	Wm. Cook,	American,	Repairman,	36	M.	Short Mountain,	Dauphin,	Arm punctured by piece of steel. Outside.
30	Geo. Batdorf,	American,	Miner,	51	S.	Lincoln,	Schuylkill,	Explosion of dynamite at face.
May 3	Herman Powell,	American,	Miner,	22	M.	Williamstown,	Dauphin,	Caught by rush of coal in breast.
11	James Kaufman,	American,	Switchman,	18	S.	Valley View,	Schuylkill,	Caught between cars. Outside.
27	Wm. E. Carl,	American,	Starter,	31	M.	Brookside,	Schuylkill,	Rush of coal in chute.
June 3	Landis Bohner,	American,	Loader,	36	M.	Short Mountain,	Dauphin,	Stepped on nail on gangway.
5	Homer Kemble,	American,	Miner,	25	M.	Short Mountain,	Dauphin,	Rush of coal at face of pillar.
7	Chas. Unger,	American,	Miner,	31	M.	Tower City,	Schuylkill,	Fall of top coal at face of breast.

TABLE 5.—Continued

Date	Name of person	Nationality of victim	Occupation	Age	Married or single	Colliery	County	Cause of accident
June 11	Andrew McNamara,	American,	Starter,	34	M.	Williamstown,	Dauphin,	Burned by explosion of gas in chamber
24	Howard Donton,	American,	Runner,	18	S.	Brookside,	Schuylkill,	Caught between cars on gangway.
	Blair Coleman,	American,	Conductor,	24	M.	Short Mountain,	Dauphin,	Caught between cars on gangway.
July 17	Henry Bush,	American,	Miner,	51	M.	Good Spring,	Schuylkill,	Burned by explosion of gas in manway.
	Farley Fisher,	American,	Miner,	34	S.			
	Patrick Fahey,	American,	Miner,	57	M.	Short Mountain,	Dauphin,	Squeezed between cars on gangway.
22	Chas. Coles,	American,	Jig tender,	16	S.	Short Mountain,	Dauphin,	Machinery in breaker. Outside.
24	Francis Schrope,	American,	Laborer,	59	S.	Middle Creek,	Schuylkill,	Falling in chute. Outside.
30	James Burns,	Irish.	Miner,	51	M.	Brookside,	Schuylkill,	Fall of top slate at face of chamber.
Aug. 16	Geo. Berger,	American,	Miner,	40	M.	Lincoln,	Schuylkill,	Fall of rock at face of chamber.
19	Wm. Low,	American,	Miner,	48	M.	Short Mountain,	Dauphin,	Fall of top slate at face of breast.
26	Martin Brodrick,	American,	Driver,	21	S.	Good Spring,	Schuylkill,	Caught by car on gangway.
30	Jno. Gibson,	American,	Mucker,	33	M.	Short Mountain,	Dauphin,	Struck by piece of rock at face of gangway.
Sept. 21	Jerry Herring,	American,	Miner,	36	M.	Lincoln,	Schuylkill,	Explosion of detonator—preparing shot.
24	Jno. Shell,	American,	Loader,	33	M.	Good Spring,	Schuylkill,	Burned by gas in chute.
	Jno. Hoverocker,	American,	Miner,	54	S.			
Oct. 19	Wm. Pickup,	American,	Timberman,	57	M.	Short Mountain,	Dauphin,	Struck by cars on gangway.
22	Peter Yustis,	Lithuanian,	Miner,	48	M.	Good Spring,	Schuylkill,	Stepping on nail on gangway.
23	Harry D. Messner,	American,	Miner,	52	M.	Williamstown,	Dauphin,	Fall of coal from side of pillar.
26	Daniel Williams,	American,	Driver,	25	M.	Williamstown,	Dauphin,	Caught between car and door on gangway.
Nov. 1	Rich Shollenberger,	American,	Repairman,	53	M.	Lincoln,	Schuylkill,	Falling on gangway.
8	Chas. Tromme, Sr.,	German,	Timberman,	67	M.	Williamstown,	Dauphin,	Lifting prop.
10	Gurney McNeal,	American,	Miner,	39	M.	Williamstown,	Dauphin,	Fall of coal at face.
15	Eli Stichler,	American,	Miner,	59	S.	Lincoln,	Schuylkill,	Caught between car and rib on gangway.
17	David Blackway,	American,	Motorman,	25	S.	Short Mountain,	Dauphin,	Squeezed between mine car and door on gangway.
23	Howard Houser,	American,	Miner,	50	M.	Lincoln,	Schuylkill,	Fall of coal at face.
26	Leo Bender,	American,	Oiler,	19	S.	Short Mountain,	Dauphin,	Caught by mine car. Outside.
27	Lester Updegrave,	American,	Laborer,	18	S.	Brookside,	Schuylkill,	Struck by lump of coal.
Dec. 4	Clinton Sneck,	American,	Laborer,	28	M.	Lincoln,	Schuylkill,	Kicked by mule.
8	Ira Schwalm,	American,	Chute boss,	43	M.	Good Spring,	Schuylkill,	Caught in machinery. Outside.
10	Frank Bechtel,	American,	Miner,	45	M.	Brookside,	Schuylkill,	Fall of coal at face.
13	Ralph Shade,	American,	Driver,	18	S.	Williamstown,	Dauphin,	Falling under mine cars on gangway.
	Harry Shade,	American,	Laborer,	30	M.	Valley View,	Schuylkill,	Knocked under mine cars. Outside.
20	Allen Kimmel,	American,	Oiler,	16	S.	Valley View,	Schuylkill,	Struck by sprag. Outside.
	Anthony Ossman,	American,	Miner,	29	M.	Valley View,	Schuylkill,	Falling on ice in tunnel.

MINE FOREMEN'S EXAMINATIONS

The annual examination of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen was held in Lykens May 4 and 5. The Board of Examiners was composed of Charles J. Price, Mine Inspector, Lykens; Edward O. Van Horn, Lykens; Samuel Evans, Miner, Minersville; Jacob Felty, Miner, Suedberg; I. M. Price, Clerk.

The following persons passed a satisfactory examination and were granted certificates:

MINE FOREMEN

Charles F. Batdorf, Joliett; Samuel J. Snyder, Wiconisco.

ASSISTANT MINE FOREMEN

Luther F. Hawk, James Tallons, Peter T. Strauser, Tower City; Irvin M. Witmer, Ellsworth E. Klouser, Valley View; Samuel F. Barr, William L. Kender, Tremont; Lewis J. Schoffstall, Lykens.

INDEX

	Page
Letter of transmittal,	3
Introduction,	5
Accidents,	5
Fatal accidents, 1919,	6
Fatal accidents, 1920,	8
Table 1. Tons of coal mined, days worked, persons employed, killed and injured, and quantity of explosives used, 1919, 1920,	12-13
Table 2. Number and kinds of boilers, engines, locomotives, pumps and air compressors in use, 1919, 1920,	14-15
Table 3. Production, employes, days worked, by operators, 1919, 1920,	16-18
Table 4. Operators that produced in more than one county; production and employes, 1919, 1920,	20
Table 5. Gaseous and non-gaseous mines in operation, number of mine foremen, assistants and fire bosses; production and percentage of production from gaseous and non-gaseous mines and washeries, by districts, 1919, 1920,	23-24
Table 6. Total production, production from washeries, average production per day excluding washery production, production per employe, quantity of explosives used, production per pound of explosives used, 1899-1920,	25
Table 7. Classification of employes, by districts, 1919, 1920,	26-28
Table 8. Causes and location of fatalities, by districts, 1919-1920,	30-33
Table 9. Operators that had fatalities, fatalities per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, 1919, 1920,	36-38
Table 10. Causes of fatalities inside, fatalities inside per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, fatalities outside, fatalities outside per 1,000 employes, by districts, 1919, 1920,	40-41
Table 11. Causes of fatalities inside, fatalities inside per 1,000 employes and per 1,000,000 tons produced, production per fatality inside, fatalities outside, fatalities outside per 1,000 employes, by counties, 1919, 1920,	42-43
Table 12. Causes of non-fatal accidents inside and outside, by districts, 1919, 1920,	44-45
Table 13. Number of minors employed, number killed, by districts, 1919, 1920,	46-47
Table 14. Nationality of employes, number killed, 1919-1920,	48
Table 15. Nationality of employes killed, 1900-1920,	50
Table 16. Classification of employes killed, 1899-1920,	51

Page

Table 17. Miners and miners' laborers employed, fatalities per 1,000 employed, average number of days worked by breakers, average production per day 1882-1920, ... 52

Table 18. Production, employes inside and outside, fatalities inside, fatalities inside per 1,000 employes, production per fatality inside, by counties, 1899-1920, ... 53

Table 19. Employes inside and outside, fatalities inside and outside, fatalities per 1,000 employes, production per fatality inside, number of inspectors, 1881-1920, ... 58

Table 20. Employes, fatalities, fatalities per 1,000 employes and per 1,000,000 tons produced, production per fatality, 1870-1920, ... 59

Table 21. Accidents in which five or more persons were killed, 1847-1920, 60

FIRST DISTRICT, Benjamin Maxey, Inspector, Forest City, ... 63-423
SECOND DISTRICT, P. J. Moore, Inspector, Carbondale, ... 78-439
THIRD DISTRICT, L. M. Evans, Inspector, Scranton, ... 93-455
FOURTH DISTRICT, Jenkin T. Reese, Inspector, Scranton, ... 107-469
FIFTH DISTRICT, S. J. Phillips, Inspector, Scranton, ... 121-483
SIXTH DISTRICT, D. T. Williams, Inspector, Scranton, ... 135-497
SEVENTH DISTRICT, Augustus McDade, Inspector, Taylor, ... 151-513
EIGHTH DISTRICT, Robert Johnson, Inspector, Pittston, ... 165-527
NINTH DISTRICT, Edwin C. Curtis, Inspector, West Pittston, ... 179-541
TENTH DISTRICT, John B. Corgan, Inspector, Kingston, ... 194-557
ELEVENTH DISTRICT, Thomas J. Williams, Inspector, Wilkes-Barre, 209-571
TWELFTH DISTRICT, D. T. Davis, Inspector, Wilkes Barre, ... 225-585
THIRTEENTH DISTRICT, Frank Kettle, Inspector, Nanticoke, ... 239-601
FOURTEENTH DISTRICT, Joseph J. Walsh, Inspector, Nanticoke, ... 253-615
FIFTEENTH DISTRICT, David J. Roderick, Inspector, Hazleton, ... 265-629
SIXTEENTH DISTRICT, J. J. Stickler, Inspector, Hazleton, ... 279-643
SEVENTEENTH DISTRICT, Isaac M. Davies, Inspector, Lansford, ... 293-657
EIGHTEENTH DISTRICT, E. G. Evans, Inspector, Coaldale, ... 305-671
NINETEENTH DISTRICT, M. J. Brennan, Inspector, Pottsville, ... 319-687
TWENTIETH DISTRICT, P. C. Fenton, Inspector, Mahanoy City, ... 335-703
TWENTY-FIRST DISTRICT, A. B. Lamb, Inspector, Shenandoah, ... 348-717
TWENTY-SECOND DISTRICT, William Reid, Inspector, Centralia, ... 364-733
TWENTY-THIRD DISTRICT, B. I. Evans, Inspector, Mount Carmel, .. 379-751
TWENTY-FOURTH DISTRICT, P. J. Friel, Inspector, Shamokin, ... 393-765
TWENTY-FIFTH DISTRICT, Charles J. Price, Inspector, Lykens, ... 407-779

INDEX OF OPERATORS

Acher & Jermyn, ... 240
Alden Coal Co., ... 254-616
Alliance Coal Mining Co., ... 306-672
Ames Coal Co., John, ... 542
Archbald Coal Co., ... 79-440

Page
Bald Mountain Coal Co., ... 136-498
Barton Coal Co., ... 64-424
Beaver Valley Coal Co., ... 280-644
Bergen Coal Co., ... 306-672
Bernice Anthracite Coal Co., ... 424
Black Creek Coal Co., ... 602
Black Diamond Fuel Co., ... 484
Black Heath Coal Co., ... 320-688
Blanchard, C. N., ... 320-688
Boland Coal Co., John J., ... 136-498
Bright Coal Co., ... 64-424
Buck Ridge Coal Mining Co., ... 394-766
Buck Run Coal Co., ... 320-688
Butcher Creek Coal Co., ... 320-688

Cambridge Coal Co., ... 349-718
Campion Coal Co., ... 644
Carbon Creek Coal Co., ... 394
Carbondale Coal Mining Co., ... 64-424
Carney & Brown Coal Co., ... 136-498
Central Coal Co., ... 195-558
Colonial Colliery Co., ... 380-752
Conlon Coal Co., John, ... 195-558
Connell Anthracite Mining Co., ... 64-424
Coxe Brothers & Co., Incorporated, ...266-280-630-644
Cranberry Creek Coal Co., ... 280-644
Cullen Fuel Co., ... 320

Darkwater Coal Co., ... 320-688
Delaware, Lackawanna & Western Railroad Co.
(1919) 94-108-122-136-152-195-226-240-254
(1920) 456-470-484-498-514-558-586-602-616
Dennington Coal Co., ... 152-514
Dodson & Co., Charles M., ... 280-644

East Alden Mining Co., ... 254-616
East Bear Ridge Coal Co., ... 365-734
East Boston Coal Co., ... 195-558
East Lehigh Coal Co., ... 306-672
East Point Coal Co., ... 266-630
Enterprise Coal Co., ... 380-752
Evans Colliery Co., ... 280-644
Excelsior Coal Co., ... 380-752
Exeter Coal Co., ... 542

Falls Mining Co., ... 79

Gibbons Coal Co., John, ... 122-484
Girard Mammoth Coal Co., ... 349
Gorman & Campion Coal Co., ... 306-672
Greenough Red Ash Coal Co., ... 380-752
Green Ridge Coal Co., ... 108-470
Grove Hill Coal Co., ... 64-424

Page
Haddock Mining Co., ... 195-558
Harleigh-Brookwood Coal Co., ...(1919) 266-349-365 (1920) 630-718-734
Harwood Coal Co., ... 280-644
Healey Coal Co., ... 180-195-542-558
Hillman Coal Co., ... 572
Hillside Coal & Iron Co., ...(1919) 64-79-152-166- (1920) 424-440-514-528
Hudson Coal Co., ...(1919) 64-79-94-108-122-136-152-166-195-210-226
(1920) 424-440-456-470-484-498-528-558-572-586-677
Humbert Coal Co., ... 79-440

Inter-City Fuel Co., Incorporated, ... 586-688

Jermyn & Co., ... 152-514

Kemmerer & Co., M. S., ... 266-630
Kingston Coal Co., ...180-226-542-586
Kirby & Sons, Inc., J. W., ... 64-424

Lackawanna Coal Co., Limited, ... 424
Lackawanna Valley Fuel Co., ... 470
Laurel Coal Mining Co., ... 365-734
Lee Coal Co., George F., ... 240-602
Legitts Creek Anthracite Co., ... 94-456
Lehigh & Wilkes-Barre Coal Co., ...(1919) 210-226-240-254-280
(1920) 572-586-602-616-644
Lehigh Coal & Navigation Coal Co., ...294-306-658-672
Lehigh Valley Coal Co., ...(1919) 180-195-210-240-266-280-306-336-349-365-408
(1920) 542-558-572-602-630-644-672-704-718-734
Locust Dale Coal Co., ... 365-734
Locust Mountain Coal Co., ... 349-718
Lytle Coal Co., ... 320-688

McTurk Coal Co., W. R., ... 365-734
Markle Co., G. B., ... 266-630
Maryd Coal Co., ... 306-672
Mid City Coal Co., ... 94-456
Midvalley Coal Co., ... 365-734
Mill Creek Coal Co., ... 306-672
Moffat, Contractor, W. Y., ... 122-484
Mount Jessup Coal Co., Limited, ... 64-136-424-498
Mount Lookout Coal Co., ... 180-542
Murrin Coal Co., ... 79-440

Nay-Aug Coal Co., ... 136-498
Northeast Coal Co., ... 424
Northern Anthracite Coal Co., ... 64-424
Norwegian Coal Co., ... 688

Oak Hill Coal Co., ... 320-688
Oak Run Coal Co., ... 79

Page
Pardee Brothers & Co., Incorporated, ... 266-630
Pennsylvania Coal Co., ... (1919) 108-136-152-166
(1920) 470-498-514-528
Peoples Coal Co., ... 108-473
Petersburg Coal Co., ... 470
Philadelphia & Reading Coal & Iron Co., (1919) 306-320-336-349-365-380-394-408
(1920) 672-688-704-718-734-752-766-780
Pine Hill Coal Co., ... 320-688
Pittston Coal Mining Co., ... 240-602
Pleasant Mount Coal Co., ... 456
Plymouth Red Ash Coal Co., ... 226-586
Port Carbon Coal Co., ... 306-672
Price-Pancoast Coal Co., ... 108-470

Quinn Coal Co., ...136-166-498-528

Racket Brook Coal Co., ... 64-424
Raub Coal Co., ... 195-558
Raven Run Coal Co., ... 718
Red Ash Coal Co., ... 210-572
Reese Coal Co., Thomas R., ... 280-644
Repplier Coal Co., ... 734
Rhondda Coal Co., ... 79-440
Richmondale Coal Co., ... 424
Robertson Coal Co., ... 64-424

Saint Clair Coal Co., ... 306-672
Scranton Anthracite Coal Co., ...122-484-498
Scranton Coal Co., ... (1919) 64-79-94-108-136
(1920) 424-440-456-470-498
Scranton-Taylor Coal Co., ... 152-514
Se-Rob Coal Co., ... 108-470
Shamokin Red Ash Coal Co., ... 380-752
Shawnee Coal Co., ... 226-586
Sherman Coal Corporation, ... 320-688
Shipman Koal Co., ... 394-766
Simpson Coal Co., ... 64
Slope Mountain Coal Co., ... 766
Spencer Coal Co., ... 136-498
Spruks Mining Co., ... 79
Stackhouse Coal Co., E. S., ... 254-616
Staples & Bell, Inc., and Dexter & Carpenter, Inc., ...64-136-470
Suffolk Coal Co., ... 514
Susquehanna Collieries Co., ...(1919) 254-349-380-394-408
(1920) 616-718-752-766-780

Temple Coal Co., ...(1919) 64-79-180 (1920) 424-440-542
Thomas Colliery Co., ... 349-718
Traders Coal Co., ... 195-558
Trevorton Colliery Co., ... 394-766

Upper Lehigh Coal Co., ... 266-630

Page
Van Wickle Estate, A. S., ... 280-644
Von Storch Collieries Co., ... 94-456

Wentz Co., J. S., ... 266-630
West End Coal Co., ... 254-616
West Nanticoke Coal Co., ... 240-602
White & Co., ... 320
Wilben Coal Co., ... 79-440
Wilkes-Barre Anthracite Coal Co., ... 210
Wilkes-Barre Colliery Co., ... 195-558
Wolf Collieries Co., Incorporated, ... 266-630
Worden Coal Mining Co., ... 108

R. J. Howorth